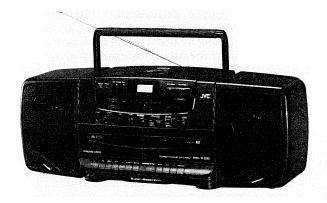
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

PC-X95 B/E/G/EN/GI





	Area Suffix
В	U.K.
E	Continental Europe
G	Germany
EN	Northern Europe
GI	ltaly
EN	Northern Europe

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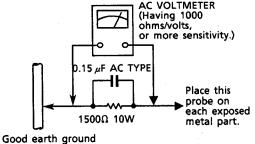
-Safety Precautions -

- 1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (\triangle) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage currnet check (Electrical shock hazard testing)
 After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

 Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth
 - any exposed metal part having a return path to the chassis, to a know ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
 - Alternate check method Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

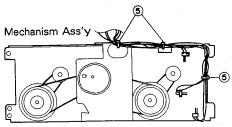
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

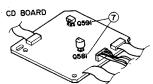


Warning -

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

■ Important Management Points Regarding Safety (Items Demanding Special Safety Precautions)





- ① The power transformer must be checked by the following markings as well as managed in the fastening torque of the screws. Also confirm parts number according to the parts list.

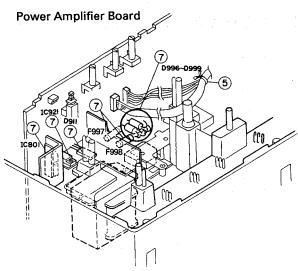
 C: VTP57P2-12C (Marking)
- ② Power cord: Make sure of the following markings and inspect exterior scratch and damage. (Accessories Parts)

	Power cord	Attachment plug	Connect plug
В	BS6500		KS-15F
E/G/GI/EN	⊲ VDE ▷	KP419C	KS-15 or KS-15F

3 Confirm the AC socket marking:

B/E : HSC/466

Wires and so forth must be securely clamped or fixed as illustrated on the left (at two points) to keep them from power active parts, mobile parts, heating units and sharp-edged parts.



- Since the following parts are hea generating ones, they must not contact with electrolytic capacitors, wires, etc.
 - Parts in box are out of JVC control.

heat sink, [D591], [Q581], [D996], [D997], [D998], [D999], [C801], [C921], [Q921]

Note: IC801 (TA8207K) must be checked if its primary side is protected by the primary barrier protector.

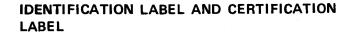
Fuse

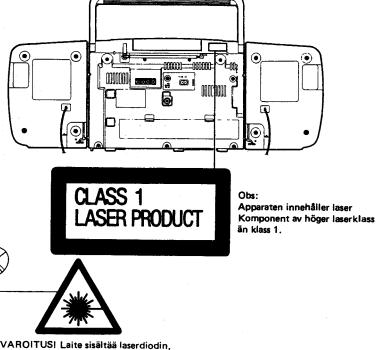
Confirm (S), (\$\forall \text{ mark on F998 and F999 and they are tightly retained by fuse holders.}

B/E	F998	T3, 15A
E	F997	T3, 15A

IMPORTANT FOR LASER PRODUCTS (For U.S.A. only)

- 1. CLASS 1 LASER PRODUCT
- DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- 4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the disc holder is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
- CAUTION: Use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.





ADVARSEL-Der vil udsträles osynlig läsetbestränig när apparatet abbes og attas ingsmekarismen frigoris. UNDGA AT BLIVE UDSE " FOR LASERBESTRÄLING DANGER-Invisible laser radiation when open and interface i potested AVOID DIRECT EXPOSURE TO BEAM

VAROITUSI Laite sisältää laserdiodin, joka lähettää näkymätätöntä silmille vaarallista lasersäteilya.

Instructions (Extract)

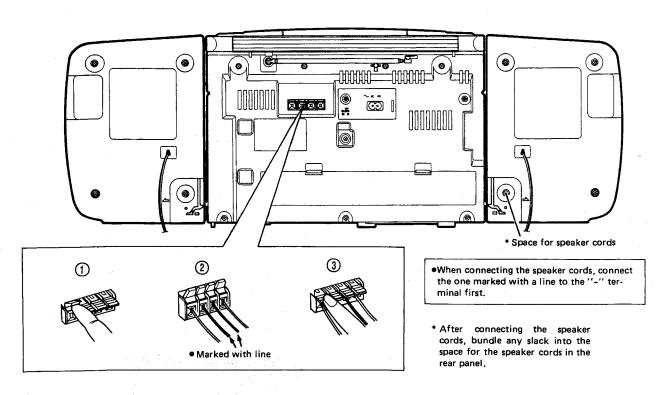
FEATURES

- 1. Portable system incorporating multi-function CD player.
 - CD player with program play of up to 20 tunes/repeat play function.
 - Digital LCD (Liquid Crystal Display) indicates the playback time of each tune and the number and total playback time of programmed tunes.

 • 8-cm (3-3/16") "CD singles" capability.
- 2. Synchro-record start for CD recording convenience.
- 3. Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).
 - Metal and CrO₂ tape can be played back, for superior tone quality.
 - Synchro start dubbing function (normal/high-speed dubbing).
 - Relay playback (from Deck B to Deck A).
 - Full auto-stop mechanism.
- 4. SUPER BASS HORN system

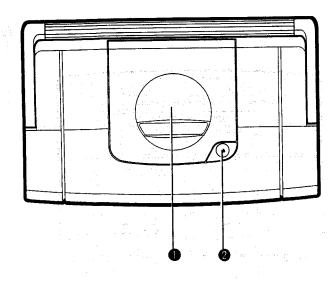
CONNECTIONS

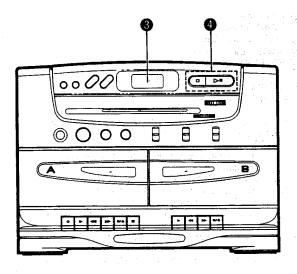
• Do not switch the power on until all the connections are completed.



NAMES OF PARTS AND THEIR **FUNCTIONS**

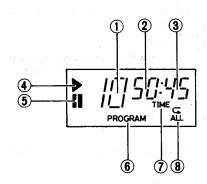
Top panel





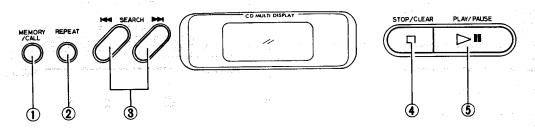
- Disc holder
 Disk holder open button (PUSH OPEN) (▲)

- ② Disk holder open button (PUSH OPEN) (≜)
 ③ Display window (CD player section)
 ① Track (tune) number display
 ② Program order number/Time (minute) display
 ③ Time (second) display
 ④ Playback indicator (►)
 ⑤ Pause indicator ()
 ⑥ Program mode indicator (PROGRAM)
 ⑦ TIME mode indicator (► ALL)



0





- @ CD operation buttons

 - CD operation buttons

 ① MEMORY/CALL button
 ② REPEAT button
 ③ SEARCH (I◄◄ / ►►) button
 ④ STOP/CLEAR (□) button
 ⑤ PLAY/PAUSE (▷□) button

6 Dial scale

TUNING knob

FINE TUNING knob

1 POWER switch

VOLUME control

BASS control

TREBLE control
FUNCTION switch

CD

Set to this position when listening to or recording from a CD.

TUNER

Ser to this position when listening to or recording from the radio.

TAPE-HIGH SPEED DUBBING

Set to this position to dub at high speed.

TAPE-NORMAL SPEED DUBBING

Set to this position to listen to a cassette or dub at normal speed.

TAPE (FOR PLAYBACK)/FM MODE/BEAT CUT switch TAPE (FOR PLAYBACK) switch

Set this switch according to the type of tape to be used.

NORMAL:

Set to this position to listen to a normal (type I) tape. METAL- CrO_2 : (playback only)

Set to this position to listen to a metal (type IV) or chrome (type II) tape.

FM MODE switch

STEREO: Set to this position to listen to or record an FM stereo broadcast.

MONO: Set to this position when FM stereo reception is obscrued by noise.

BEAT CUT switch

Usually set to "1 NORM" position.

Beats which may occur while recording an AM broadcast can be eliminated by changing the position of this switch.

- BAND switch (FM/AM)
- Cassette holder (Deck A)
- Cassette holder (Deck B)
- Cassette operation buttons (Deck A)

OREC:

Press this button with the PLAY button to start recording.

►PLAY:

Press to play the tape.

■REW:

Pre

Press to rewind the tape rapidly.

▶ FF:

Press to wind the tape forward rapidly.

■ /≜ STOP/EJECT:

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.

SE PAUSE:

Press to stop the tape temporarily. Press again to release the pause mode.

(B) Cassette operation buttons (Deck B)

▶PLAY:

Press to play the tape.

FIESS (

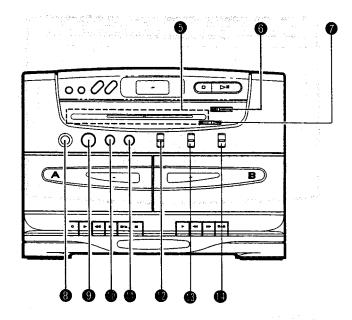
Press to rewind the tape rapidly.

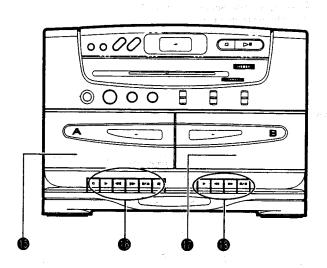
Press
FF:

Press to wind the tape forward rapidly.

■ /≜ STOP/EJECT:

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.





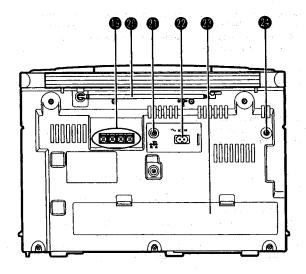
SPEAKER terminals

Connect the provided speakers to these terminals.

- Telescopic antenna for FM reception.
- DC (12 V) jack

- AC IN (AC input) jack
 Battery compartment cover
 PHONES jack (3.5 mm dia. stereo mini) Connect headphones (impedance $16 \Omega - 1 k\Omega$) to this jack. The speakers are automatically switched off with the headphones connected.

Rear panel

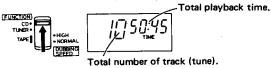


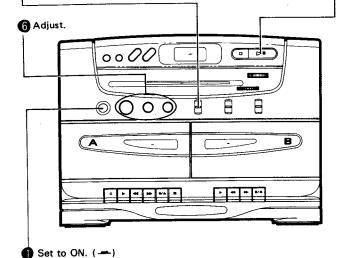
PLAYING COMPACT DISCS

Entire tune playback The following example shows using a compact disc which contains 10 tunes and a total playback time of 50 minutes, 45 seconds.

Operate in order shown.

4 Set to CD. The disc starts rotating and the total number of track (tune) and total playback time are displayed.



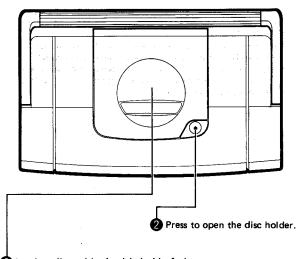


Press to start the playback. The track (tune) number and playback time are displayed.

Track (tune) number.



Displays elapsed playback time of each tune being played back.



1 Load a disc with the label side facing up. Close the disc holder.

Skip playback

 During playback, when skipping to the beginning of the next tune or the tune being played back or the previous tune, the beginning of the tune is easily located and the playback starts from there.

To listen to the next tune . . .

Press the button once to skip to the beginning of the next tune.

To listen to the previous tune . . .

Press the

button to skip to the beginning of the tune being played back and press again to skip to the previous tune.

Search playback (to locate the required position on the disc)

- The required position can be located using fast-forward or reverse search during playback.
- Hold down the button and the search playback starts slowly and then gradually increases speed.
- Since a small sound (about one quarter of playback level) can be audible in both modes, release the button when the required position is located while monitoring the sound.

To stop playback

To stop in the middle of a disc

During programmed playback, press the STOP/CLEAR button once to stop playback; press again to cancel the program.

To stop a disc temporarily

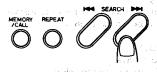
Press the D * PLAY/PAUSE button to stop a disc temporarily. When pressed again, playback resumes from the point where pause was engaged.

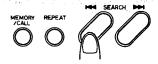
Caution:

When changing discs, press the STOP/CLEAR button; check that the disc has stopped rotating completely before unloading it.

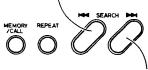
Notes:

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
 In such a case, check the disc and insert again and clean or change the disc.
- Do not use the unit at excessive high or cold temperatures.
 The recommended temperature range is 5°C (41°F) to 35°C (95°F).
- After playback, unload the disc and close the disc holder.
- If mistracking occurs during playback, lower the volume.
- Mistracking may occur if the unit is given a strong impact or is used in a place which is subject to vibrations (i.e. in a car travelling on a rough road).

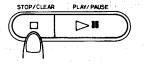


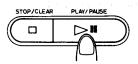


Keep pressing for the fast-reverse search



Keep pressing for the fast-forward search

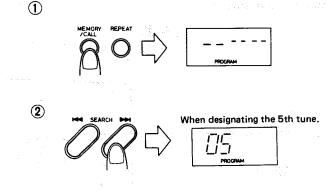






Programmed playback

- Up to 20 tunes can be programmed. When there are less than 20 tunes on a disc, the total playback time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
- 1) Press the MEMORY/CALL button to set to the programming mode.
- 2 Press to designate the required track number.
- To count down the track number, press the | dut-
- 3 Press the MEMORY/CALL button to program the track (tune) number.
 - Repeat steps 2 and 3 to program other tunes.
- (4) Press the PLAY/PAUSE button when programming is completed. Programmed playback starts.

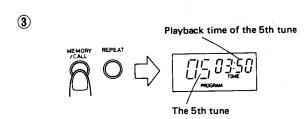


displayed.

Total playback time of programmed tunes is

When programming the 12th tune.

The 12th tune





To clear programmed tunes Press the
STOP/CLEAR button before playback. During programmed playback, press this button twice. When the disc holder is opened, the programmed tunes are automatically

To confirm the details of programmed tunes . . . When the MEMORY/CALL button is pressed, the details of programmed tunes are displayed in the programmed order.

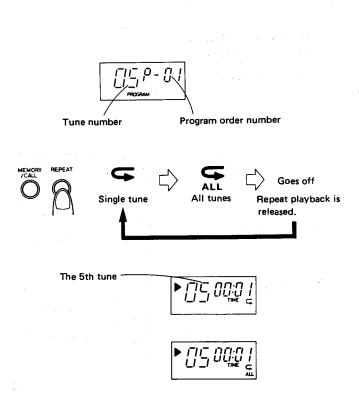
Repeat playback

cleared.

Press the REPEAT button before or during playback. A single tune or all the tunes can be repeated.

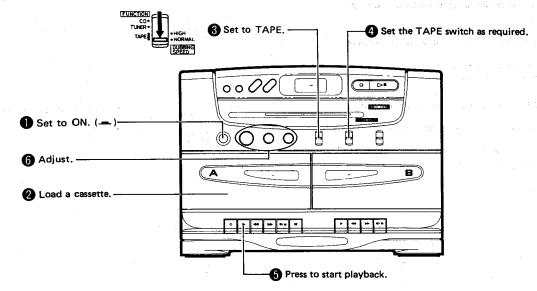
A single tune and all the tunes can be specified separately. Each time the REPEAT button is pressed, the mode will be changed from a single tune () to all the tunes (ALL) to the clear mode, in this order.

- Repeat playback of a single tune (록) The tune being played back can be heard repeatedly.
- Repeat playback of all the tunes (🤝 ALL) When playing back the entire disc or programmed tunes, all the tunes or the programmed tunes can be heard repeatedly.



CASSETTE PLAYBACK (The example shows deck A)

Operate in order shown.



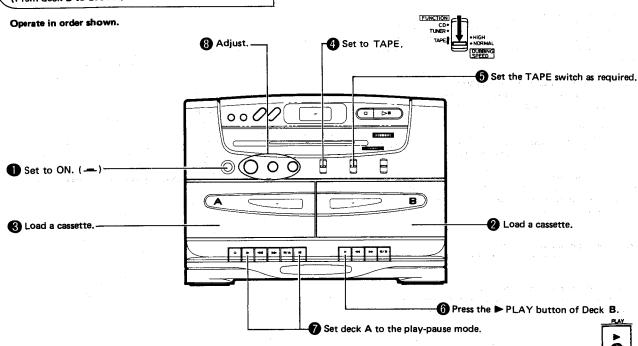
Playback in deck B

The previous procedures (a) and (b) also apply to deck B when a cassette is loaded in deck B. When decks A and B are simultaneously set to the play mode, only the playback sound of deck B is heard.

Notes:

- 1. When the power is turned off while the tape is running, cassette operation buttons which are depressed do not return to the original positions.
 - Press the ■/▲ STOP/EJECT button to stop the tape running before turning off the power.
- 2. Avoid operating the FF or REW button on the deck during playback of the other deck.

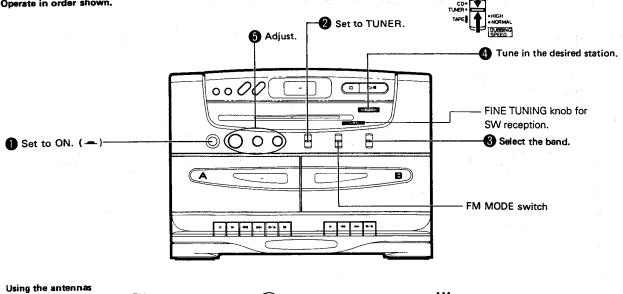




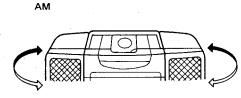
Notes:

- Use the same type of tape in decks A and B.
- 2. When deck B stops, deck A's pause mode will be released and it will start playback. When deck A stops automatically, relay playback will be released.









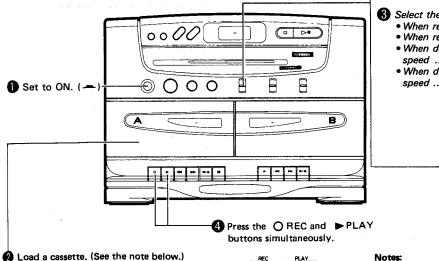
Note:

The built-in ferrite core antenna can pick up interference tones from television receivers in the neighborhood and thereby disturb MW

RECORDING (Deck A)

Operate in order shown.

• In recording, the ALC circuit automatically optimizes the recording level and adjustment of the recording level is unnecessary.



- 3 Select the recording source • When recording from the CD player
 - When recording from the radio TUNER
 - When dubbing the tape at high-
 - speed TAPE-HIGH SPEED DUBBING
 - When dubbing the tape normal-
 - speed TAPE-NORMAL SPEED DUBBING

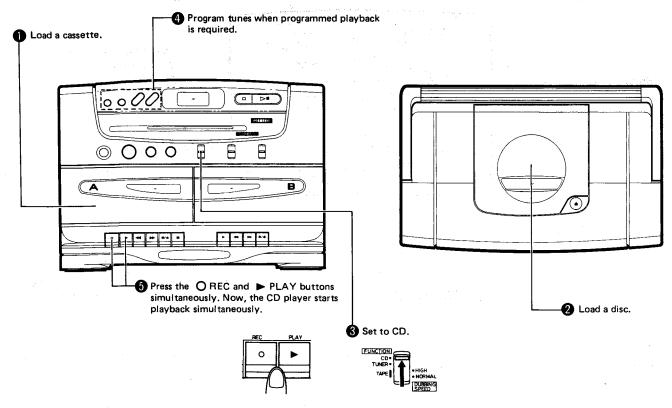
Notes:

- The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from CrO₂ and metal tapes.
- 2. Avoid operating the FF or REW button on deck B during recording.

Synchronized recording with the CD Player

• In this system, the CD player starts playback when deck A enters the recording mode.

Operate in order shown.

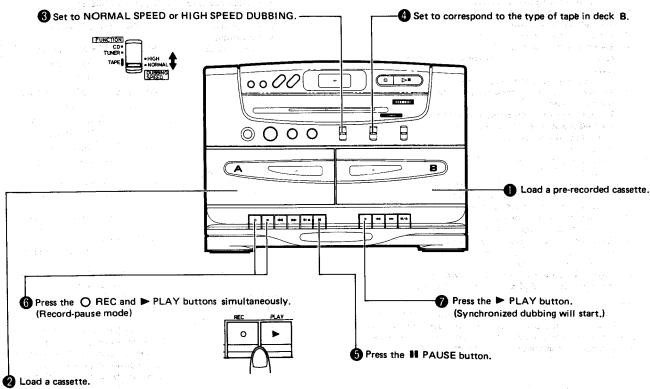


- Non-recorded sections of approx. 4 seconds are left automatically between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/ STOP/ EJECT button to stop the tape.
- When automatic spacing between tunes is not required . . . Perform the following after finishing the previous operation ($oldsymbol{0}$ $oldsymbol{0}$).
- Press the ▷■ PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
- ② Press the OREC and ►PLAY buttons simultaneously. Now, the CD player starts playback simultaneously.

DUBBING (SYNCHRO START DUBBING)

Normal and high-speed dubbing can be done from deck B to deck A.

Operate in order shown.



(Refer to the note on page 30)

Notes:

- 1. Television receivers placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal-speed dubbing mode.
- 2. With deck A in the record-pause mode, the B PAUSE button is released when deck B enters the stop mode.
- 3. Avoid switching the FUNCTION switch during dubbing.

11 PAUSE button

First of all, press the PAUSE button. Then, press the O REC and ► PLAY buttons, thus entering the record-pause (standby) mode. After that re-press the ■ PAUSE button at the exact moment you want to start recording. This releases the tape to begin recording at a precise moment.

Do not leave the unit in pause mode for more than a few minutes. Instead, push the ■/ STOP/EJECT button and turn the power off.

Full auto-stop mechanism (both decks A and B) When the tape reaches either end during the recording/ playback and fast forward or rewinding mode, the tape stops automatically.

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.

To erase a tape without making a new recording . . Follow the section "RECORDING" but in step 3, set the FUNCTION switch to TAPE then perform recording to erase a tape.

TROUBLESHOOTING

What appears to be trouble is not always real trouble. Make sure first

- Power cannot be turned on.
- Is the power cord unplugged?
- When the ▶ PLAY button is pressed, tape does not move.
- Is the **II** PAUSE button pressed?
- Playback sound is small.
- Are batteries run down?
- Is head section dirty?
- Sound quality is poor.
- is the position of TAPE switch correct? (during play-
- O REC button cannot be pressed.
- Are the safety tabs of cassette tape removed?
- Is cassette loaded?
- The disc is loaded, however, the total tune number and total playback time are not displayed.
- Is the disc upside down?
- Is the disc dirty?
- Is the disc damaged or warped?
- Is the lens dirty?
- Is there lens condensation? If so, set the POWER switch to ON and wait 1 or 2 hours before use.
- No sound can be heard from the speakers.
- Are headphones connected to the unit?
- Are the speaker cords connected securely?
- Since tape speed is irregular, wow and flutter occur.
- Is the pinch roller or capstan dirty?
- Are batteries run down?
- High-speed dubbing cannot be performed.
- Is the position of FUNCTION switch correct?

Note:

When the deck is moved from a cold place of around 0°C (32°F) to a warm place, it may not operate normally, because moisture has formed inside the deck. Normal operation will be restored after waiting 1 or 2 hours.

SPECIFICATIONS TO THE STATE OF THE STATE OF

Compact disc player section is also

: Compact disc player

Signal detection system: Non-contact optical pickup (semiconductor laser)

Number of channels 2 channels (stereo) Frequency response : 20 Hz - 20,000 Hz

Signal-to-noise ratio : 76 dB

Wow & flutter

: Less than measurable limit Radio section

: FM. Frequency ranges

88 - 108 MHz (B/E/G/EN) 87.5 - 108 MHz (GI)

Antennas SW 6-18 MHz

> 540 - 1,600 kHz (B/E/G/EN) AM

526 - 1,607 kHz (GI) 150 - 280 kHz (B/E/G/EN)

LW

148 - 284 kHz (GI)

Telescopic antenna for FM & SW Ferrite core antenna for MW & LW

Tape deck section

Track system : 4-track 2-channel stereo

Electronic governor DC motor for Motor

capstan

Deck A; Hard permalloy head (for Heads

recording/playback), Permalloy

head for erasure

Deck B; Hard permalloy head for

playback

Frequency response 63 - 12,500 Hz (with normal

tape/normal speed) Wow & flutter 0.15 % (WRMS)

Fast wind time

: Approx. 120 sec. (C-60 cassette)

General Power output

Dimensions

: 4.5 watts per channel, min.

RMS, at 3 ohms from 150 Hz to 15 kHz with no more than 10 % total harmonic distortion

Max. 16 W (8 W + 8 W) at 3 Ω (MAX OUT)

: Speaker x 2 (matching impedance Output terminals

 $3-8\Omega$

PHONES x 1 (Output level: $0 - 12 \text{ mW/32 }\Omega$,

Matching impedance: $16 \Omega - 1 k\Omega$) : AC 240 V, 50/60 Hz (PC-X95B) Power supply

AC 230 V, 60 Hz (PC-X95GI/E/G/EN) DC 12 V (8 "D" batteries)

28 W (with POWER SW ON) Power consumption

2.6 W

(with POWER SW STANDBY)

682 (W) x 249 (H) x 227(D) mm (26-7/8" x 9-13/16" x 8-15/16")

including knobs
Approx. 7.5 kg (16.6 lbs) Weight

(without batteries) Approx. 8.3 kg (18.4 lbs)

(with batteries)

Speaker Section (each unit)

: 10 cm (3-15/16") x 1 Speakers

Impedance : 3 Ω

Dimensions

: 170 (W) x 234 (H) x 195 (D) mm

(6-3/4" x 9-1/4" x 7-11/16") Weight : Approx. 1.3 kg (2.9 lbs)

Design and specifications are subject to change without notice. ಸರ್ಜೀಕ್ ಕ್ರೀ ಕ್ರೀ ಕ್ರೀಕ್ರಿಕೆ ಈಗ್ರ ನಡೆಗಳು

1 Location of Main Parts of misM to leverned

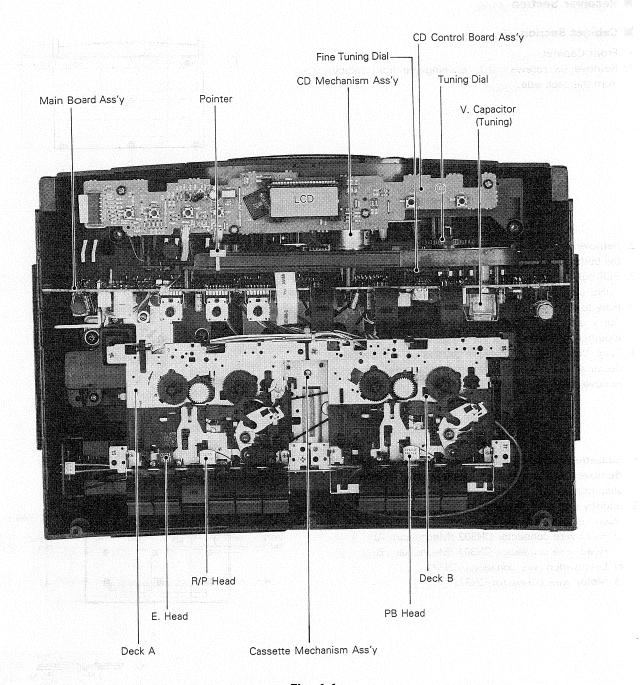


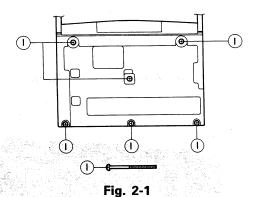
Fig. 1-1

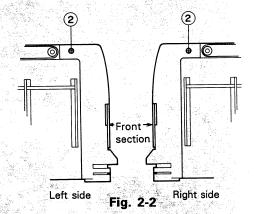
2 Removal of Main Parts

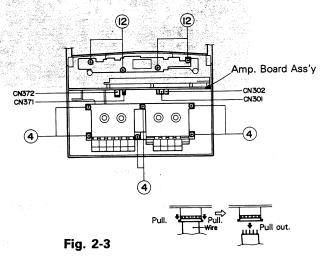
■ Receiver Section

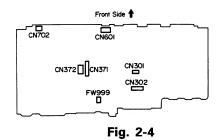
- Cabinet Section (Fig. 2-1)
- Front Cabinet
- 1. Remove six screws (1) retaining the front cabinet from the back side.

- 2. Remove two screws 2 retaining the cabinet from the both sides of the front cabinet. (Fig. 2-2)
- Pull out the knobs of POWER switch, VOLUME and TONE controls.
- How to remove knob:
 Apply adhesive tape onto the knob and pull them together with to remove the knob.
- Push the operation (EJECT) buttons of the cassette decks A and B while opening the cassette doors to remove the front cabinet.
- Cassette mechanism assembly (Fig. 2-3, Fig. 2-4)
- Remove six screws 4 retaining the mechanism assembly.
- Slightly lift the mechanism assembly upward and disconnect the following wire connections.
 - a) Head wire connector CN302 (Mechanism A)
 - b) Head wire connector CN301 (Mechanism B)
 - c) Leaf switch wire connector CN371
 - d) Motor wire connector CN372









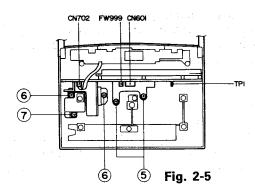
- Main board assembly (Fig. 2-5)
- 1. Remove two screws 5 retaining the jack bracket.
- 2. Remove two screws 6 retaining the power transformer
- 3. Remove one screw (7) retaining the mechanism holder.
- Disconnect wires connecting with the CD section from the connectors CN702 and CN601 of the main board assembly, and remove the antenna wire from the TP.
- Lock the speaker terminals, then, draw the main board assembly outward.

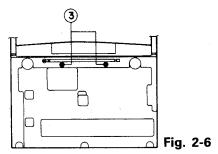
Note: In this condition, fuse can be replaced.

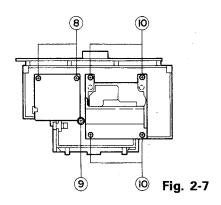
- · CD unit
- 1. Remove two screws 3 retaining the CD unit from the back side. (Fig. 2-6)
- 2. Remove four screws (12) to remove the control board assembly. (Fig. 2-3)

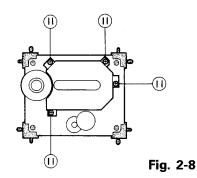
■ Disassembly of CD unit (Fig. 2-7)

- Disconnect the motor wire connector and remove the pickup.
- 2. Remove three screws (8) and (9) retaining the CD amp board assembly.
- 3. Remove four screws (10) retaining the CD mechanism.
- 4. Remove the mechanism holder and then conical spring (spindle side is black).









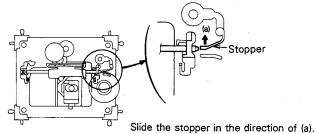


Fig. 2-9 Then, pull out the shaft.

- 1. Remove four screws (11) retaining the pickup cover.
- 2. Slide the pickup shaft stopper in the direction of the arrow while pull out the shaft toward the stopper side.

■ CD door assembly (Fig. 2-10)

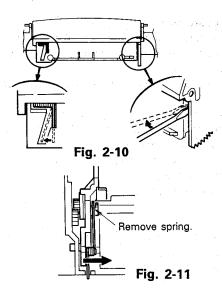
- 1. Remove the CD door from the chassis.
- Insert a screwdriver into the left gear section of the CD door to extend the door arm outward while removing it.

■ Cassette door (Fig. 2-11)

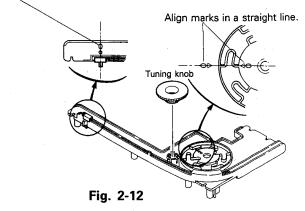
- 1. Remove the door spring.
- 2. Insert a screwdriver between the door arm and the cabinet to bend the door arm in the direction of the arrow while removing the right and left door arms.



- 1. Turn the tuning knob fully counterclockwise.
- 2. Set the " 0Δ " mark of the dial drum to face that of the chassis
- 3. Align the center of the pointer in the line between the center of the " 0Δ " mark and the hole.
- 4. In the condition satisfying the above steps 2 and 3, fit the tuning knob again.



Align the center of the pointer in the line between "0" and the hole's center.



- · Installation procedure:
- 1. Turn the tuning control fully counterclockwise.
- 2. Set the "0 Δ " mark of the dial drum to face that of the chassis.
 - (Shaft of the variable capacitor and the drum become engaged with each other.) $\,$
- Align the center of the pointer in the line between the "0" mark and the center of the hole.
- 4. In the condition of the steps 2 and 3, fit the tuning knob.

■ Cassette Mechanism Section

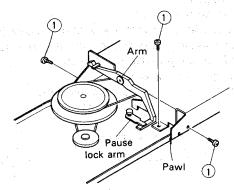


Fig. 2-13

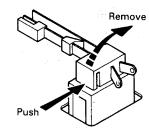


Fig. 2-15

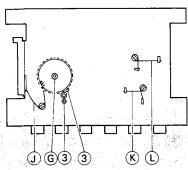


Fig. 2-17

- Motor bracket (Recording/playback deck)
- 1) Remove the three screws (1).
- 2) Remove the chassis and M. bracket from the button side. Then remove the bracket arm (panel). (The synchro arm can be removed from the pause lock. Return the pause lock after it is removed from the proper position.)
- Head section (Fig. 2-14)
- 1) Remove the record/playback head's mounting screw (A) and loosen screw (B).
- 2) Remove the erase head mounting screw (C) and (D).
- Pinch roller (Fig. 2-14)
- 1) Remove the pinch roller arm stopper(E).
- Flywheel ass'y (Fig. 2-14, Fig. 2-16)
- 1) Remove the C washer (F) securing the capstan shaft.
- 2) Pull out the flywheel ass'y.

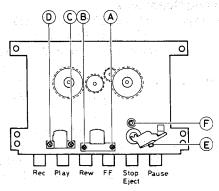


Fig. 2-14

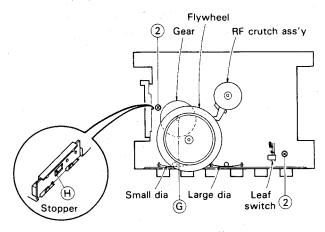


Fig. 2-16

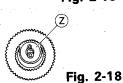


Fig. 2-18

- Removal of the button ass'y from the mechanical chassis.
- Leaf switch (Fig. 2-15)
 Press the switch's lock panel and raise from the left to remove.
- Gear (Below the flywheel) (Fig. 2-16, Fig. 2-18)
 Remove the C washer G securing the gear.
 For reassembly, insert the Sensing Lever arm stand into the Z section.
- Lock arm (Fig. 2-16)
 Press the arm stopper from window (H), and pull to remove.
- Chassis removal (Fig. 2-16, Fig. 2-17)
 - 1) Remove the three \bigcirc , \bigcirc , and \bigcirc springs.
 - 2) Remove the two screws (2).
 - 3) Remove the two screws (3) securing the capstan metal.
 - 4) Gently remove the button ass'y from the chassis.

Main Adjustment

Measuring Conditions

100-120/220-240 V AC, 50/60 Hz (J only) • Supply voltage :

120 V AC, 60 Hz (C only)

• Reference output: Speaker : 0 dBs (0.775 V)/3 Ω

Headphone: 0 dBs $(0.775 \text{ V})/32 \Omega$

Test point (CNTP1): -30 dBs • Reference input:

Test point (CNTP1): -50 dBs [○ ○ ○]

(REC/PB characteristics check input)

FUNCTION switch : TAPE • Switch setting :

> MODE switch **STEREO** TAPE SELECT switch: NORMAL BEAT CUT switch : POSITION 1 or

NORMAL

DUBBING SPEED switch: NORMAL

BASS/TREBLE: Center Volume setting :

MAIN volume: for 0 dBs output level

• Tape to be used :

· Normal tape for REC and PB

· Test tapes

VTT712 (3 kHz, 0 dB) : for measurement of wow &

flutter, tape speed

VTT724 (1 kHz, -4 dB) : for standard level adjustment

VTT703 (10 kHz, -10 dB): for azimuth adjustment

VTT736 (8 kHz/1 kHz/125 Hz): for measurement of PB fre-

quency response

Attentive point

Connection of IF sweeper:

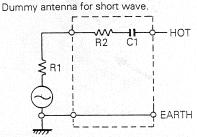
Connect a 30 pF capacitor and a 33 k Ω resistor in series to the sweeper's output while 0.082 µF capacitor and a 100 k Ω resistor in parallel to the input.

IF sweeper's output level:

Set as minimum as enough for adjustment.

Loop Antenna LOOP ANTENNA AM SSG BAR ANT. 60 cm

Fig. 3-1



	d length (cm)	L > 90	90 > L > 60	L < 60
C	(PE)	10	8	6

 $R1 + R2 = 80 \Omega R1$: Output impedance of SSG.

TP504

CD Player Adjustment

• To run CD player individually for adjustment:

(1) Supply +6 V DC power from the regulated DC power supply to the line between +B and DG of FW601 on the CD board (VMW1293), or connect the pin 5 of FW601 on the CD board (VMW1293) and the amp board with the provided extension cord to supply +6 V DC power for adjustment.

(2) Apply load resistance of 47 k Ω to the audio output.

(3) When loading a disc, use the magnet clamper provided with the set or equivalent.

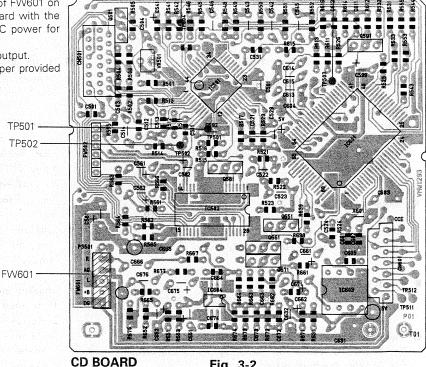


Fig. 3-2

Tracking Offset Adjustment

• Required things: Oscilloscope

Normal disc (CTS1000)

· Adjustment procedure:

- (1) Connect TP503 (Hot side) to an oscilloscope while connect TP501 (Earth side) to GND.
- (2) Play back a normal disc to check if tracking error signal is output or nor.
- (3) Shortcircuit between TP504 and TP501.
- (4) Adjust VR501 so that DC level of tracking error signal is on the "0" (zero) level.

Note: Adjust VR501 so that the waveform becomes vertically symmetrical.

Oscilloscope input should be DC coupling.

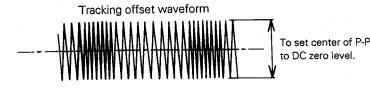


Fig. 3-3

Maintenance of CD pickup

- To confirm the service life of laser diode
- (1) Load the set with a disc and turn on the power switch.
- (2) Press the PLAY button to play back the disc.
- (3) Observe RF output with an oscilloscope. If it is 0.6 Vp-p or less, clean the object lens with a cotton swab.

 Again measure RF output. If it is still under 0.6 V-p, the

laser diode maybe gets having had it. In that event, replace the pickup following the instructions.

· Semi-fixed resistor on the pickup board

The semi-fixed resistor on the pickup board installed on the pickup are prepared for laser power adjustment.

Since this adjustment must be performed in accordance with the properties of the optical block, do not disturb this semifixed resistor.

When laser power is poor, it results from wear of the laser diode and it needs to replace.

If the semi-fixed resistor of the normal pickup is turned, it may be damaged by overcurrent.

· Grating adjustment

Grating has been adjusted well in the unit condition. If it is maladjusted, playback of CD may become impossible since laser beam traces another track.

APC (automatic program control)

In the OPTIMA5, APC is prepared in the CD mechanism, however, in the OPTIMA6, an IC on the CD board functions as APC. (CD mechanism has no APC function.)

· Pickup replacement procedure

Separate the pickup from the set to be a unit, and confirm no incoming electricity.

Detach the CD mechanism from the CD board.

Loosen screws fixing the pickup to the pickup holder and shaft and remove the pickup.

Install a new pickup and securely connect it to the connector, then reassemble the CD mechanism to the CD board.

Unsolder solder bridge of the shorting land for laser protection on the soldered side of the pickup board.

Turn on the electricity without disc being loaded, and confirm that the lens vertically moves with emission of the laser. (Do not look laser bean in the eye.)

Preset VR501 for tracking adjustment to the center position.

Play back a disc to confirm that the disc normally rotates.

Adjust tracking offset.

PLAY, SKIP operation normal?

See Repair instructions.

Replacement completes.

Tuner Alignment

Basic conditions

POWER SOURCE OF THE RECEIVER	AC : 240 V (B) 230 V (E/G/GI/EN) 50/60 Hz DC : 12 V
TOWER GOORGE OF THE REGISTRE	(Connect 47 Ω resistor to Tuner Input.)
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.39 V)/3 Ω (1.15% of the second of
MODULATION OF SSG	AM : 400 Hz, 30 %, FM: 400 Hz, 22.5 kHz dev.
ltem	Description

1. AM IF ALIGNMENT

(The unit should not usually require adjustment. Follow the steps below when adjustments are necessary.)

- 1-1 Conditions of the receiver
- (1) Power source:
- (2) Function switch position:
- (3) Band select switch:
- (4) Volume control: (5) BASS/TRE control:
- (6) Reception frequency:
- 1-2 Connection of sweeper and the receiver
- (1) Tuner input:
- (2) Tuner output:

450 kHz (455 kHz)

1-3 Aligning position:

1-4 Alignment (waveform):



7.0 V DC

(When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.) (Connect 47 Ω in series when applying 7 V to tune unit) TUNER

sing transfer of the growing

MW

Minimum gain position

Center position

Set the reception frequency to the highest position and to the position where the signal does not enter.

Positive side to TP3

Positive side to TP6, Negative side to TP7

Adjust MW IFT (above mentioned aligning position) so that maximum and symmetrical waveform can be obtained. In this case, the wavehead should appear at the center marker (450 kHz) on the scope of sweeper.

2. FM IF ALIGNMENT

(The unit should not usually require adjustment. Follow the steps below when adjustments are necessary.)

- 2-1 Conditions of the receiver
- (1) Power source:
- (2) Function switch position:
- (3) Band select switch:
- (4) Volume control:
- (5) BASS/TRE control:
- (6) Reception frequency:
- 2-2 Connection of sweeper and the receiver
 - (1) Tuner input:
 - (2) Tuner output:

Same as mentioned in item 1-1

TUNER

FM

Minimum gain position

Center position

Set the reception frequency to the highest position and to the position where the signal does not enter.

Positive side to TP5

Positive side to TP6, Negative side to TP7

Note: a) Attach a capacitor (30 pF) and resistor (33 $k\Omega$) to the positive side cable which shall be led from sweeper output.

b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from sweeper input.

2-3 Aligning position:

2-4 Alignment (waveform):



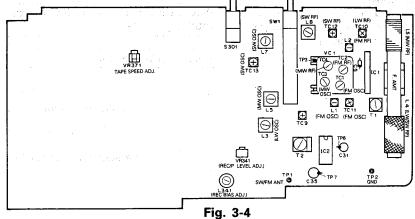
Fig. A



Discriminate waveform: T1 ("S" curve waveform)

- 1. Disconnect CF3 to change waveform from S-curve (Fig. B) to singlepeak waveform (Fig. A).
- Turn T1 to shape waveform so that it peaks in the center (10.7 MHz) of the waveform and is symmetrical in both sides.
- 3. Connect CF3 again and confirm that waveform returns to the original (Fig. B).





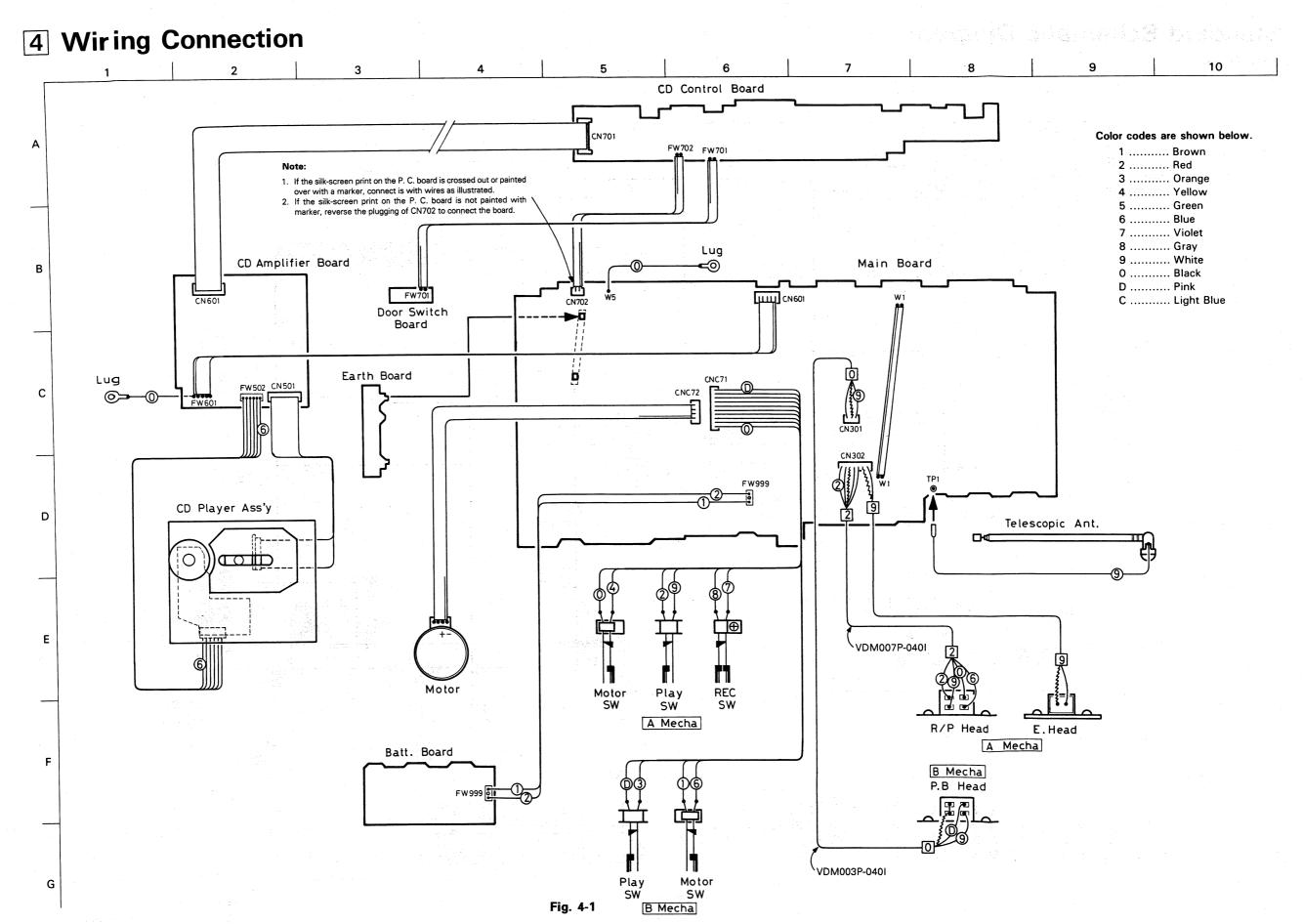
	Item	<u> </u>	2000	Description	
2 1414	RF ALIGNMENT			Doodription	
3. IVIVV	onditions of the rec	eiver	ng ngapatèn na kababasa sebabah sebagai kebalan sebagai sebagai sebagai sebagai sebagai sebagai sebagai sebaga Sebagai sebagai sebaga	en e	The State of the S
(1) Po	ower source:		Same as mentioned in	item 1-1	
(2) Fu	inction switch posi	tion:	TUNER	in the second of	
	and select switch:		MW Approx. 50 mW		
	olume control: ASS/TRE control:		Center position		
(6) V	ariable capacitor:			list shown in item 3-4.	
3-2 C	onnection of SSG				
	lodulation:		400 Hz, 30 %	list shown in item 3-4.	
(2) F	requency: output level of the a	tttenuator in SSG		lecided by the load resistanc	e of the receiver
(3) (uthat level of the a	ttteridator in ood.	mentioned in the basi		
	utput measuring po	osition:	Speaker terminal		
3-4 A	lignment:			<u> </u>	
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1		Harrist Albertain	145 kHz (B/E/G/EN) 138 kHz (GI)	Max. capacity	L3
2			290 kHz (B/E/G/EN) 293 kHz (GI)	Min. capacity	TC9
3	LW	Loop Antenna	can receive above fre	ing position (L3 & TC3) repeated quency range (bandwidth).	dly so that the tuner
4			145 kHz (B/E/G/EN) 138 kHz (GI)	To receive 145 kHz 138 kHz	L4
5			290 kHz (B/E/G/EN) 293 kHz (GI)	To receive 290 kHz 293 kHz	TC10
6			Adjust the above alignment that the terms of	gning position (L4 & TC10) repoest sensitivity.	eatedly so that the
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
7			520 kHz (B/E/G/EN) 516 kHz (GI)	Max. capacity	L5
8			1,650 kHz (B/E/G/EN) 1.632 kHz (GI)	Min. capacity	TC5
9	MW	Loop Antenna		ning position (L5 & TC3) repeate quency range (bandwidth).	dly so that the tuner
10		⋰.	600 kHz	To receive 600 kHz	L6
11			1,500 kHz (B/E/G/EN) 1,400 kHz (GI)	1,500 kHz To receive 1,400 kHz	TC4
12				ning position (L6 & TC4) repeate ensitivity.	dly so that the tuner
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
13			5.8 MHz	Max. capacity	L7
14	1		18.6 MHz	Min. capacity	TC13
15	614	Lan Astonna	Adjust the above alig	ning position (L7 & TC13) repeat equency range (bandwidth).	edly so that thetuner
16	SW	Loop Antenna	6 MHz	To receive 6 MHz	L8
17			18 MHz	To receive 18 MHz	TC12
18				gning position (L8 & TC12) rep	peatedly so that the
4-1 (1 (2 (3 (4	FM IF ALIGNMENT Conditions of the re Power source: Function switch po Volume control: BASS/TRE control: Variable capacitor:	eceiver sales	Same as mentioned TUNER Approx. 50 mW Center position Refer to the followir	in item 1-1 ng list shown in item 4-4.	

	Item			Description				
(1) (2) (3) 4-3 (1) (2)	Connection of FM S Modulation: Frequency: Output level of the a Connection of swee Tuner input: Output measuring p Alignment	atttenuator in FM SSG:		glist shown in item 4-4. decided by the load resistant ic conditions.	ce of the receiver			
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position			
1			87.5 MHz (B/E/G/EN) 87.35 MHz (GI)	Max. capacity	L1			
2			109.0 MHz (B/E/EN) 108.3 MHz (G/GI)	Min. capacity	TC1, 11			
3	FM (E/B/EN)	Dummy Antenna (75 Ω , unbalanced)		ning position (L1 & TC1, 11) repove frequency range (bandwidt				
4	(E/D/EIV)	(75 22, dilbalanced)	90 MHz	To receive 90.0 MHz	L2			
5]		106.0 MHz	To receive 106.0 MHz	TC2			
6		Adjust the above aligning position (L2 & TC2) rep can obtain the best sensitivity.						

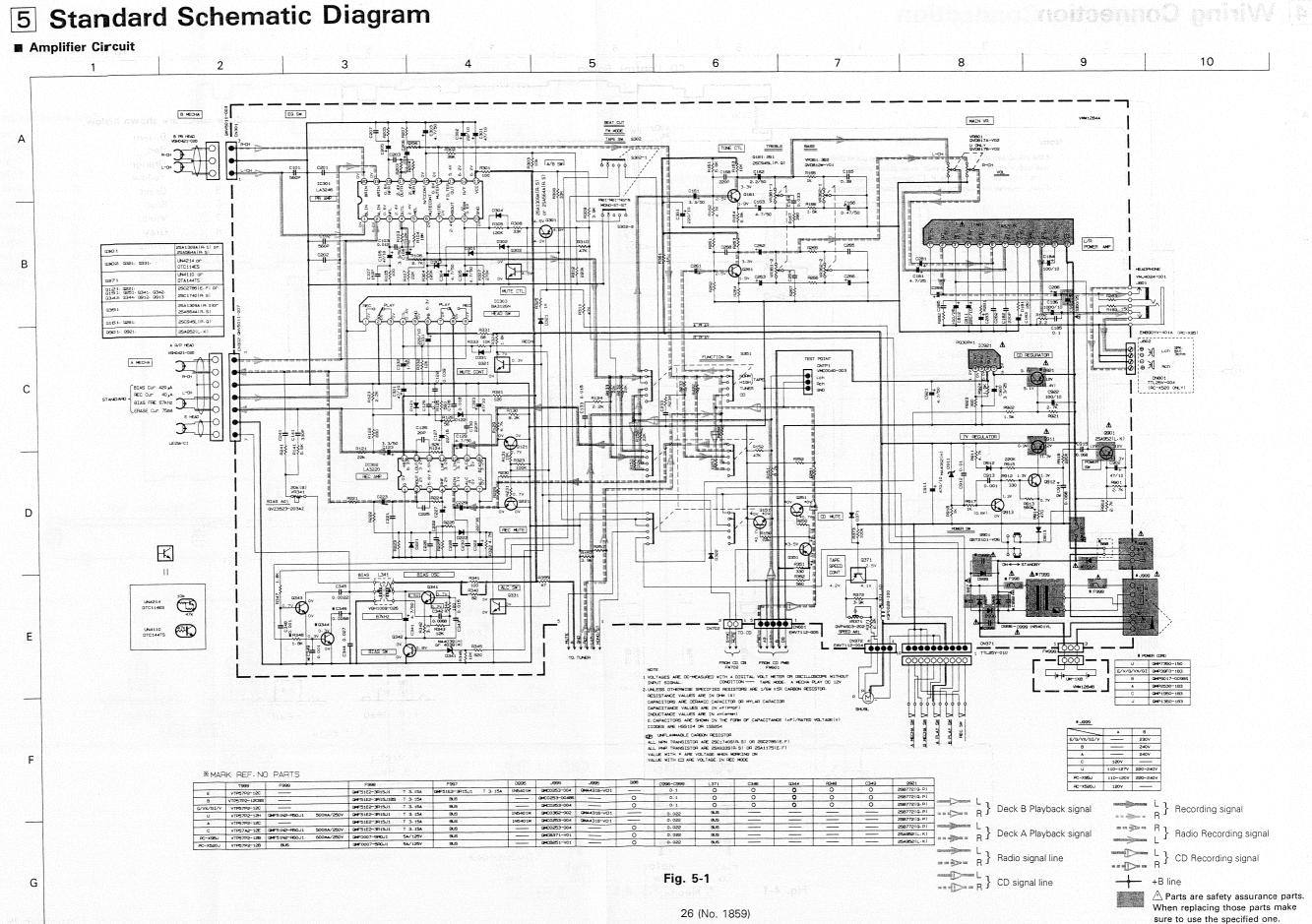
- 5. FM MPX ALIGNMENT
 19 kHz Alignment (Regular method)
 (1) Connect a frequency counter through 100 kΩ load to the test point TP4 (earth = TP3).
 (2) Supply the monaural signal (98 MHz, 60 dB) across the test points TP5 and TP6.
 (3) Adjust the semi-fixed resistor VR1 so that the frequency becomes 19 kHz ± 10 Hz.

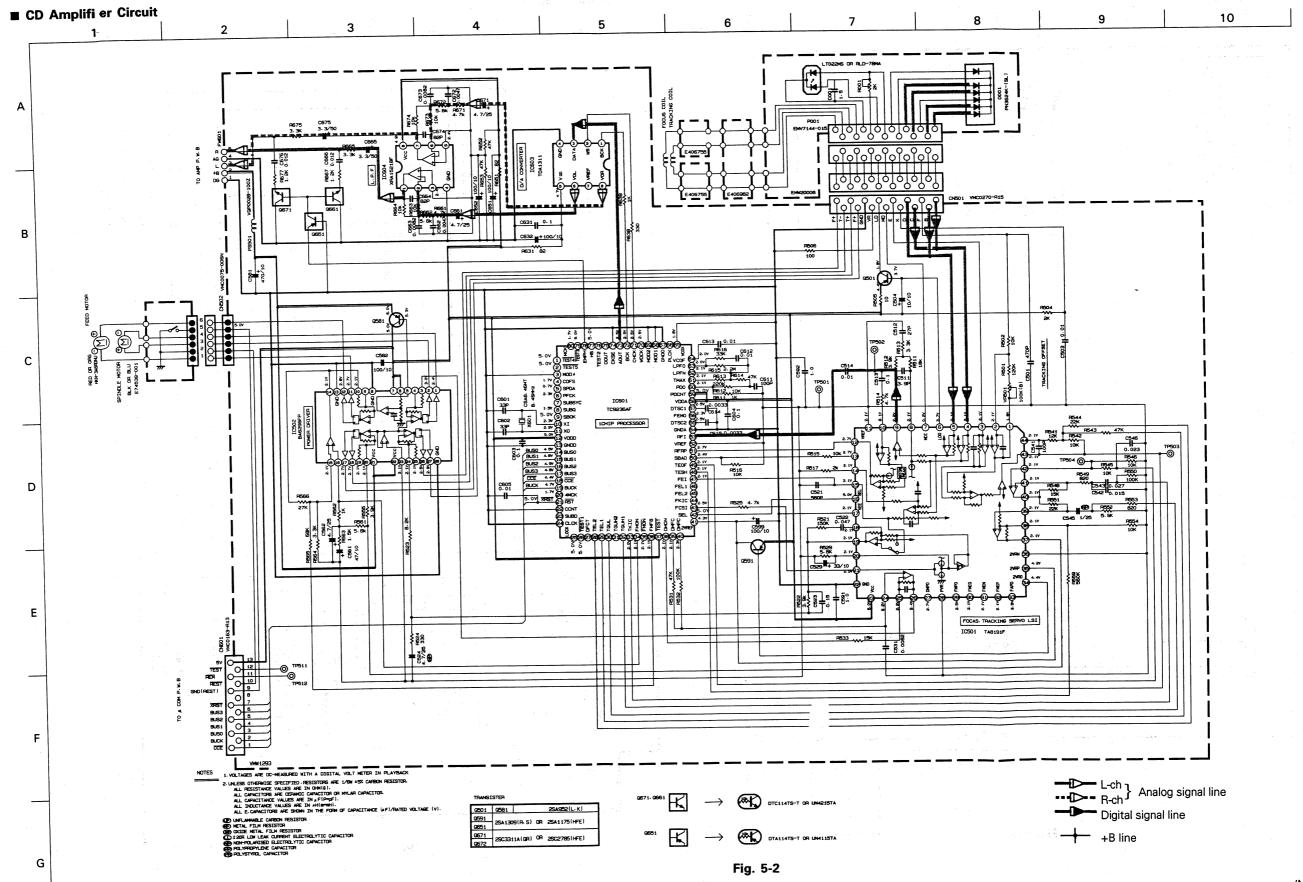
■ Deck Adjustment

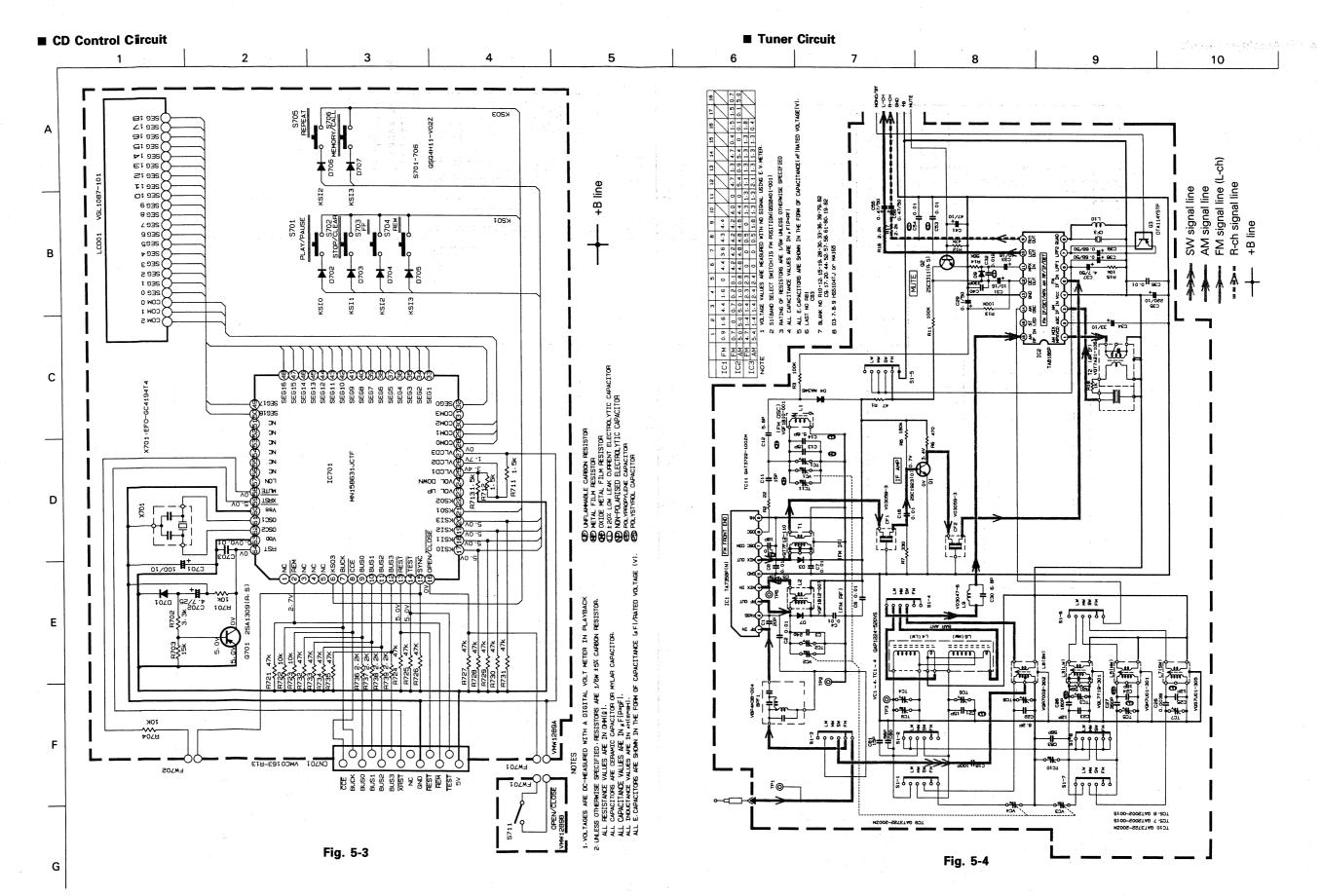
Item	Tape to be used	Check and Adjustment Procedure	Switch Position	Adjusting Point
Head azimuth adjustment	VTT703 (10 kHz)	For both of mechanism A and B, adjust setscrews to maximize output level and to minize phase difference between R and L channels. After adjustments, apply screw sealant to lock setscrews. If fine adjustment is needed after reassembly, do it by inserting a screwdriver through the adjusting hole between the door and button.	TAPE: NORMAL • Mechanism A	Mechanism A (REC/PB): Left setscrew MechanismB(PB): Left setscrew
Tape speed adjustment	VTT712 (3 kHz)	Play the test tape VTT712 on the mechanism A and adjust VR371 so that frequency counter reads 3010 \pm 10 Hz. Set the DUBBING switch to HIGH speed, and play back the test tape on the mechanism B and record it on the mechanism A while confirming tape speed of 5200 to 5800 Hz.	TAPE: NORMAL	VR371 Mechanism A: Adjust nearly with tape end.
Wow & flutter check	VTT712 (1 kHz)	Must be within 0.38 % (JIS Unweighted)	TAPE: NORMAL	
PB output level check	VTT724 (1 kHz)	Play back VTT724 test tape while confirming that speaker output is 2.7 V or more as the volume is set to maximum.	TAPE: NORMAL	
PB frequency response check	VTT736	Confirm respective frequencies as compared with 1 kHz. 8 kHz signal: $+0 \pm 3$ dB, 125 Hz signal: $+2 \pm 3$ dB	TAPE: NORMAL	
REC bias frequency adjustment	(TS-8) Normal tape	First confirm nothing wrong, then adjust as follows. Set the BEAT CUT switch (S103) to the position 1 and adjust L341 so that oscillation frequency is 67.5 kHz \pm 2 kHz at the terminal of C345. (For this adjustment, connect 1 M Ω resistor in series.)	S301 (BEAT CUT) Position 1: 70 kHz Position 2: 67.5 kHz	L341
REC frequency response adjustment	(TS-8) Normal tape	Supply 1 kHz, -3 dBs siganl to TP1 input while confirming that REC/PB output level is 0 \pm 3 dB compared with monitor level.		
REC/PB output level check	(TS-8) Normal tape	Mechanism A: Input reference signals to TP1 and adjust VR341 so that REC/PB output level is as follows compared with 1 kHz level. (Reference input level: 50 dB) 8 kHz signal: 0 dB ± 3 dB, 125 Hz signal: +1 dB ± 3 dB		VR341



5 Standard Schematic Diagram

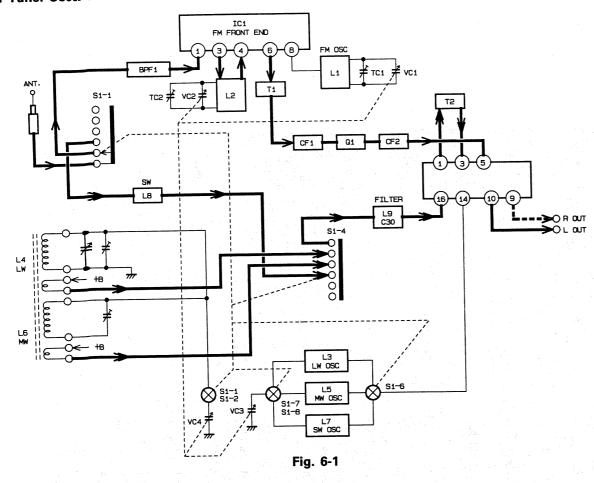




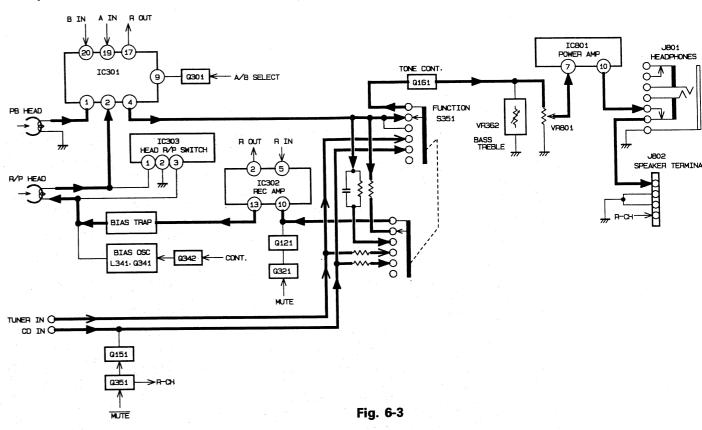


6 Block Diagram

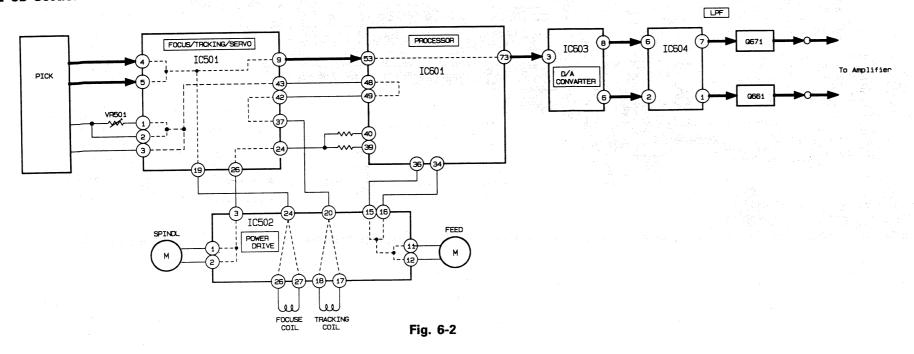
■ Tuner Section



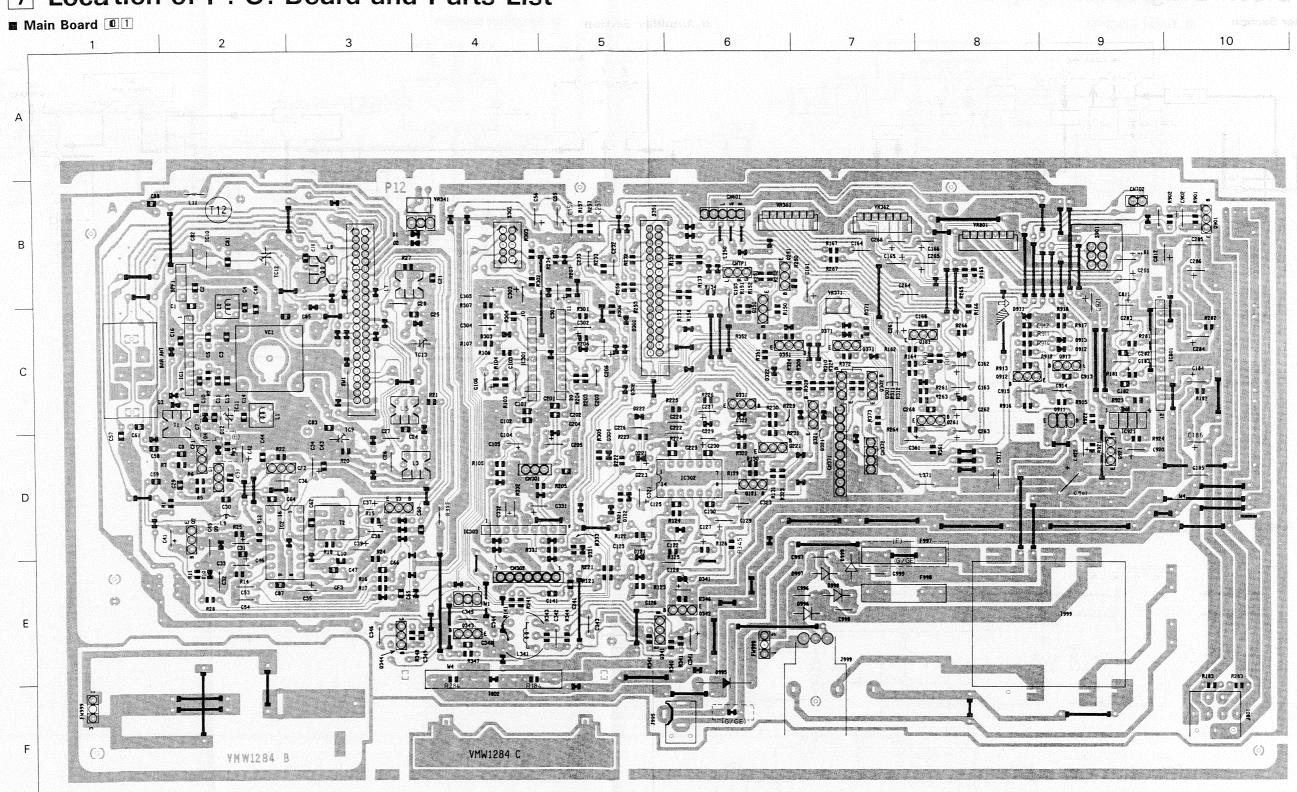
■ Amplifier Section



■ CD Section



7 Location of P. C. Board and Parts List



A Parts are safety assurance parts.

■ Main Board Parts List

When replacing those parts, make sure to use the specified one.

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REMAR	3.3MF 20% 50V	10MF 20% 2	2MF 20% 16	7ME 20% 5	20PF 10% 5	015MF 5% 5	20 % 30 %	3MF 20% 5	2MF 20% 5	033MF 5% 5	47MF 20% 5	20PF 10% 5	20PF 10%	7MF 20% 10	10MF 20%	000MF 20%	60PF 10%	60PF	50PF 10%	7MF 20% 10	. 3MF 20%	39MF 20%	OPF 5% 50V	10MF 20% 2	2MF 20% 16	7MF 20% 5	20PF 10% 5	30PF 10% 5	010MF 30%	2MF 20% 5	4.7MF 20% 50V	47MF 20% 5	20PF 10% 5	20PF 10% 5	7MF 20% 10	10MF 20% 2	000MF 20%	2MF 20% 16	7MF 20% 5	.7MF 20% 5	.7MF 20% 5	2MF 20% 16	7MF 20% 10	20MF 20% 1	.OMF 20% 5	800PF 5% 5	V W
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PARTS NO.	QETC1HM-	QCS11HJ-200	GETC1CM-2	QCC31EM-1832	QETC1HM-47	QFLC1HJ-153	QCBB1HK-331	QETC1HM-3352	QETC1HM-225Z	QETC1HM-47	GETC1HM-4747	QCBB1HK-221Y	QEK41EM-4(3	QER61AM-47	QETC1AM-1072	GCC11EM-104	QCBB1HK-561	QCBB1HK-56	GFLCIAJ-123	QETC1AM-476	QETC1HM-3352	QCC31EM-35	QCS11HJ-200	QCC11EM-104V	QETC1CM-2262	QCC51EM-185	QCBB1HK-221Y	QFLC1HJ-155 GCBB1HK-331	QCVB1CN-103Y	GELCIHM-335	QETC1HM-4752	QETC1HM-474	QCBB1HK-221Y	QCBB1HK-221Y	QER61AM-476	GCC11EM-104V	QETC1AM-108Z	QE1C1AM-4762	QETC1HM-4752	QETC1HM-4752	QETC1HM-4752	OFTC10M-2242	QETC1AM-4762	QETC1AM-2272	QETC1HM-1 QETC1HM-4	QFN41HJ-682	QFLC1HJ-15 QFLC1HJ-27
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-	M K L. F.	C 001	C 003	C 004	5 00 5	000	C 010	0 011	C 013	C 014	010	C 021	C 024	C 026	C 027	0000	020	C 031	250 3	C 034	C 035	C 036	038	C 039	C 041	c 042	C 045	C 046	270 3	C 053	C 054	2000	C 057	050	090 0	C 061	C 064	590 0	000	C 082	0 083	C 087	80 J	C 101	C 103	C 104	C 101	C 122

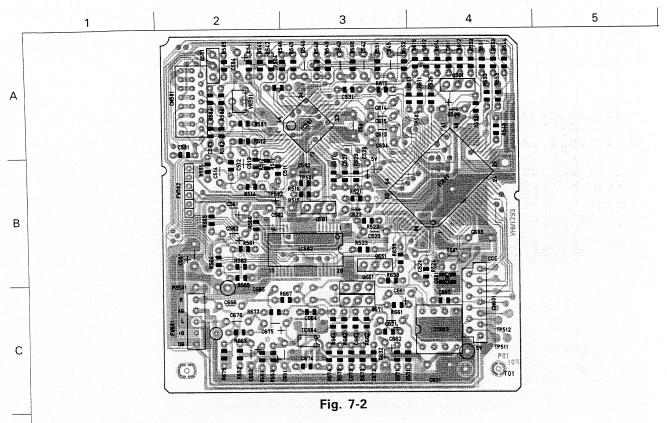
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REMARKS		MOND ST		POWER SW	F 2	7 5% 1/	2 5% 1/6W	OK 5% 1/	11 45 706	20 5% 1/6W	30 5% 1/	5% 1/6W	00K 5% 1/6	00K 5% 1	5% 1/6W	60 5% 17	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 5% 1/6	7 5% 1/6	OK 5%	0K 5% 1/	OK 5% 1/6W	2K 5% 1/	***	7K 5%	2K 5% 1/	2K 5%	2K 5%	2K 5% 1/6	5% 1/6	78 5% 1/6	2 X 2 X 2 X	OK 5% 1/	71 72	2K 5% 1	.6K 5% 1	OK 5% 1/	7K 5% 1	2K 5% 1/	.9K 5% 1	CK 34 1/0	.7K 5% 1/6	0K 5% 1/6	. 8K 5% 1/	4 %	90 5% 1/6	80 5% 1/	5% 1/6	5% 1/
PARTS NAME	COIL	NSISTOR	151	ANSISTOR	ANSISIOR	RESIST	RESISTO	RESISTO	KEST	DECTOT	RESIS	RESIST	RESIS	KES IS	RESIS	RES	RESIS	RESIS	RESIS	RESI	RESIS	RESIS	RESIS	S	RESIST	RESISTO	RESIST	BESISTO	RESISTO	RESISTO	RESI	CARBON RESISTOR	RESIST		RESISTO	RESISTO	RESISTO	RESIST	RESISTO	RESISTO	PEST	RESISTO	RESIST	RESISTO	STOR	RESISTO	CARBON RESISTOR	ARBON RESISTO	ARBON RESI
PARTS NO.	V03047-17	TA114YS	945L (P.	SA952(L,K	SB772(Q,	QRD1613-470	RD1613-22	RD161J-1	RD161J-2R	KU161J-22	RD1611-33	1613-56	RD161J-10	RD161J-10	@RD161J-56	QRD161J-56	QRD161J-10	QRD161J-47	QRD161J-47	QRD161J-10	QRD1613-56	GRD161J-10	QRD161J-12	QRD161J-18	QRD161J-10	@RD1613-27	QRD161J-22	QRD161J-68	QRD161J-82	QRD1611-56	QRD161J-56	QRD1613-47	QRD161J-10	QRD1613-22	QRD1613-22	QRD167J-56	QRD161J-10	GRD161J-67	QRD161J-22	11-39	51J~22	511-47	613-10	RD167J-68	RD161J-10 RD161J-16	01611-39	RD1	RD1613-15	01611-12
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0.00	PAKIS NO.	QEY41HK-222 QFN41HJ-682	QCBB1HK-102Y QCBB1HK-102Y	GETC1AM-227ZN	GETC1AM-2272N GETC1EM-1072N	QETB1EM-338N	QETC1AM-4762N GFTC1AM-4777N	QCVB1CM-103Y	QCBB1HK-102Y	QCC11EM-683V	QER61EM-3352	QETC1HM-475ZN	QFV41HJ-104	QFV41HJ-104	QFV41HJ-104	VCF2L3B-105	VCF2E38-105	VMZ0087-001Z	VMZ0087-001Z	TTL25V-003	QMV5011-007	TTL25V-010	EMV7112-004	VMC0107-002	MA346 MA700	15R35-100	1N5401M	1N5401VL 1N5401VL	1N5401VL	1N5401VL GMF51F2-3R15.11	QMF51E2-3R1J1BS	QMF51E2-3R15J1 TA735RP(N)	TA8186P	LA3246 LA3220	BA3126N TA8202K	PQ30RV1	VMJ4024-001	EMB901V-401A	QMC0263-004	WMC0263-004BS	VQF1B12-011	VQL7119-301 VQB0108-321	VQM7U01-301	V@R7002-302	V03047-6 V@P0024-120Y
ç	KI.	UU	348	C 361	C 811	A C 901	C 902	C 912	C 913	C 915	C 920	C 921	966 3	266 3	666 3	CF 01	7 0 2	CLIP	CLIP	CNTP1	CN302	CN371	CN5/2	CN702	0004	0 371	0	266 G W	의	۵ 4	F 998	F 998	IC 02	10301		A 10921	٠.	208 7	666 €		7 002	L 003	L 005	L 008	L 009

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REMARKS	5% 1/	5% 1/	2,	2.7K 5% 1/6W	2.7K 5% 1/6W	5% 1	5% 1	2	9	5% 1/	% ;	. O.K. 5% 1	OK 5%	2 (K 3% 1/0W	77 47 47 47	7 7 8 7 7	1 00 VC	DARD	MOTTONIA GOD	CUNCITON	1	LI XX	•						1001-07-1001	S ADJST	BLE	BASS	200	MAIN VOL			
PARTS NAME	CARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	C.RESISTOR	~	A.	RESI	RESI	RESI	RESIS	ES	RES	RESI	CARBON RESISTOR	101	AKBUN KESI	AKBON KESTS	EVERS	,	~	PUSH SE		DOLED TRANS	TRAN	T CAPACITOR	T CAPACITOR		، ن	9	V CAPACILUR	SISTOR	2	RESIS	V RESISTOR(A)			
PARTS NO.	0001411-222	1 6 7	1-10	1 - 1	1-27	74-	QRD161J-331	15	4-6	11-224	1611-224	13-102	13-102	J-272	1J-152	- 39	-15		6A23	SL 6A6	5102-00	VQT7F12-111	VAL / AZ I		2-3	QAT3722	QAT3722-	QAT3722-1	AT3722-1	QAP1224-520VS	0VPR12W-V01		QVPA603	QVD			
R E F	2	R 3/1	272						R 914		1	R 917			- 1				\$ 301		S 901		- ·	A 0000	٢	TC 10	1	TC 12	TC 13	VC1-4	VE341	VR362	VR371	VR801			

SUFFIX																																																
BLOCK NO. 011 REMARKS	M9/1 %5	K 5% 1/	5% 1/6	5% 1/6	K 5% 1/	5% 1/	5% 1/6W	7K 5% 1/	SK 5K 1/6	5% 1/6	C 5% 1/6W	6K 5% 1/	X 5% 1/6	19/1 %S X	K 5% 1/6	9K 5% 1/	6K 5% 1/	7K 5% 1/6	R 5% 1/0W	OK 5% 1/	6K 5% 1/6	0 5% 1/6	2 5% 1/0	0 5% 1/2	X 5% 1/6	K 5% 1/6W	0K 5% 1	K 5% 1/6W	ν » γ	9K 5% 1	X 5% 1/2	0K 5% 1	7M 5% 1/6W	OK 5% 1/6	0K 5% 1	5x 1/6W	12K 5% 1/4W	5% 1/6W	00 5% 1/6	3 5% 1/6	00 5% 1/	20 5% 1/6	0K 5% 1/6W	2K 5% 1	30 5% 1/6	50 5% 1/6 7 5% 1/6W	OK 5% 1/6	
PARTS NAME	DOLO DESTATOR	BON RESISTOR	BON RESISTOR	BON RESISTOR	BON RESISTOR	RBON RESISTOR	BON RESISTOR	RBON RESISTOR	RESISTOR	RBON RESISTOR RBON RESISTOR	RBON RESISTOR	RBON RESISTOR	RBON RESISTOR	RBON RESISTOR	RBON RESISTOR	RBON RESISTOR	CARBON RESISTOR	RBON RESISTOR	KRBON KESISTOR	ARBON RESISTOR	ARBON RESISTOR	District Williams																										
ON Stava	PAKIS	QRD1613-10 QRD1613-27	QRD1611-22	QRD1611-22	GRD1611-68	QRD161J-82	QRD1613-56	QRD161J-47	QRD161J-82	QRD161J-25	QRD161J-2	QRD167J-5	QRD161J-1	QRD161J-8	QRD161J-2	QRD1613-3	QRD1673-5	QRD161J-4	QRD161J-1	QRD161J-1	QRD161J-1	QRD161J-3	QR0161J-2	QRD161J-1	QRD161J-1 QRD161J-3	QRD161J-1	QRD161J-1	QRD161J-3	QRD161J-274	QRD1613-3	QRD1613-4	QRD1613-2	QRD167J-1	QRD161J-1	QRD161J-1	QRD161J-6	QRD1431-1	0801613-1	QRD161J-1	QRD161J-3	0 0 0 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1	QRD161J-8	QRD161J-1	QR0161J-1	QRD1611-3	QRD1613-	0 0RD161J-2	6401078
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■ CD Amplifier Board 0 2



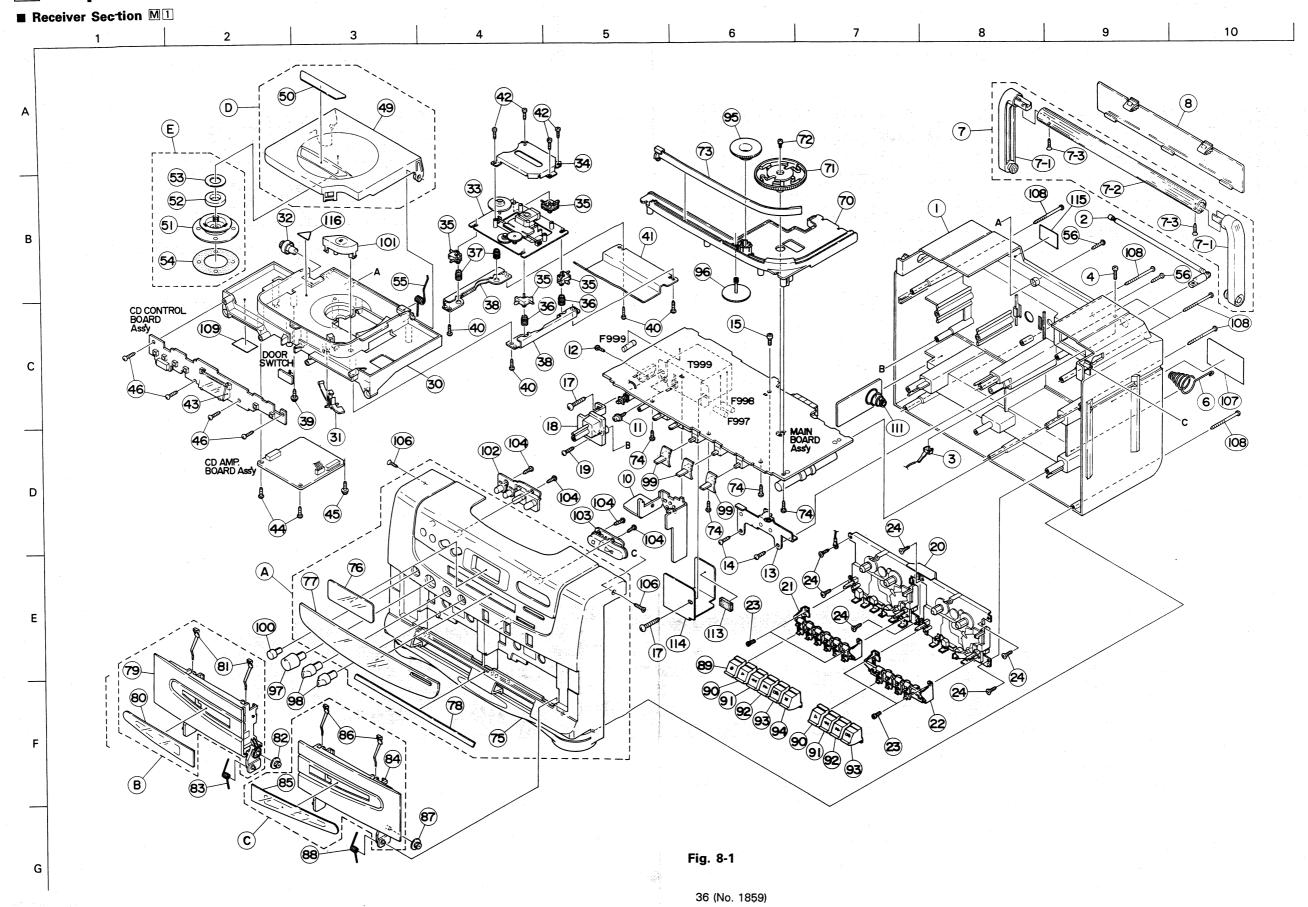
CD Amplifier Board Parts List

SUFFIX																																																			
REMARKS	0% 20	20%	% 16	%	500	% r 0 .	v c	4 9	7 6	5 1	% 10V	20%	%0	رح %	ر ا ا	٠, °	2 %	80	%00	%03		0.0 1000	RYSTAL	OR CRYSTA	10MF 20% 25	20% 25	010MF 20%	00PF 10% 5	010MF 5% 50V	5%	300PF 5% 5	10MF 20% 2	00MF 20% 1	100MF 20% 10V	. /MF 20% 5	700PF	2PF 10% 50V	.3MF 20% 25V	012MF 20% 2	.7MF 20% 50V	200PF 20%	2PF 10% 50V	.3MF 20%	012MF 20% 2	TO RF	ERVO I	OWER DRIVER	CHIP PROC	/A CONVERTE		
PARTS NAME	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITORR	CAPACITUR	CAPACITUR	ACTIONO O	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	S.E.CAPACIIUR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	C CAPACITOR	C CAPACITOR	CAPACITOR	C CAPACITOR	C CAPACITOR	C CAPACITOR	C CAPACITOR	C CAPACITOR	M CAPACITORR	CAPACITOR	M CAPACITOR	C CAPACITOR	E CAPACITOR	E CAPACITOR	E CAPACITOR	C.CAPACITOR	C CAPACITOR	E CAPACITOR	C CAPACITOR	E CAPACITOR	C.CAPACITOR	C CAPACITOR	E CAPACITOR	C CAPACITOR	DNNECT		ن د - ا	10	u	INDUCTOR	ANS
PARTS NO.	QCBB1HK-471Y	CVB1	QETC1CM-106	QCSB1HK-3R	QCS11HJ-270	QFLC1HJ-104	QFLC1HJ-103Z	QCBB1HK-561Y	QFLC1HJ-4/3	OFN4160 /757	QETC1AM-336Z	QCVB1CM-822Y	QCBB1HK-101	QFLC1HJ-153	QFLC1HJ-2732	QEN61HM-105Z	OFTC103-2232	OFTC1HM-475	QETC1AM-4772	QETC1AM-107Z	VCP0009-105	VCP0009-105Z	0 C S 1 1 H 1 - 3 3 C	QCS11HJ-33	QCC11EM-104	QCC11EM-1C	QCVB1CM-10	QCBB1HK-10	0F1 C1H 1-10	QFN41HJ-33	QFN41HJ-33	QCC11EM-10	QETC1AM-10	QETC1AM-	QETC1HM-47	QCXB1CM-4/	QCBB1HK-82	QETC1EM-33	QCC11EM-12	QETC1HM-47	QCVB1CM-82	QCBB1HK-82	QETC1EM-33	QCC11EM-12	VMC0270-R	VMC0103-K1	BA6298	TC9236	TDA1311	VQP0028-10	2SA952(L.
REF.	501	503	504	511	51	51	51	52	7 .	7 2	2 0	7 12	54	54	24	2,	7	י אי	58	58	25	5	7	9	9	9	9	, ó	0 4	9.2	6	0	9 9	C 652	ŏ.	ŏ ?	9	3	9	0	0 0	9	9	9	S 2	2 6	25.5	200	293	350	2

		NO. OO SUFFIX		
REMARKS 120K 5% 1/6W 100 5% 1/6W 4.7K 5% 1/6W 4.7K 5% 1/6W 4.7K 5% 1/6W 3.3K 5% 1/6W 4.7K 5% 1/6W 4.7K 5% 1/6W 4.7K 5% 1/6W 100K 5% 1/6W	2	BL REMAN CONTROL PW 1.7MF 20% .010MF 20% FROM CD 10% 5% 1/6	0R 1.5K 5% 1.6W 0R 10K 5% 1.6W 0R 10K 5% 1.6W 0R 17K 5% 1.6W 0	
CARBON RESISTOR	CARBON RESISTOR 3 CARBON RESISTOR 1 CARBON RESISTOR 1 CARBON RESISTOR 1 CARBON RESISTOR 1 CARBON RESISTOR 2 CARBON RESISTOR 3 CARBON RESISTOR 3 CARBON RESISTOR 2 CARBON RESISTOR 2 CARBON RESISTOR 4 CERAMIC RESISTOR 4 CARBON RESISTOR 4 CERAMIC RESISTOR 4 RESISTOR 4 CERAMIC RESONAT 8 CERAMIC RESONAT 8 CERAMIC RESONAT 8 CARBON RESISTOR 4 CERAMIC RESISTOR 4 C	S List NAME DITOR IITOR IITOR OR RESIST RESIST	CARBON RESISTO CARBON	
PARTS NO. GRD161J-124 GRD161J-202 GRD161J-103 GRD161J-100 GRD161J-100 GRD161J-100 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-103 GRD161J-104 GRD161J-104 GRD161J-104 GRD161J-104 GRD161J-104 GRD161J-104 GRD161J-104 GRD161J-123	ARD 161J-821	Controller PARTS N VMW1289-000 C WK41MM-177 C WK41MM-177 C Q C W C C C C C C C C C C C C C C C C	704 GRD161J-103 712 GRD161J-152 713 GRD161J-152 713 GRD161J-152 721 GRD161J-473 722 GRD161J-473 724 GRD161J-473 725 GRD161J-473 726 GRD161J-473 727 GRD161J-473 728 GRD161J-473 729 GRD161J-473 729 GRD161J-473 729 GRD161J-473 729 GRD161J-473 730 GRD161J-473 731 GRD161J-473 732 GRD161J-473 734 GRD161J-222 735 GRD161J-222 736 GRD161J-222 737 GRD161J-222 738 GRD161J-222 738 GRD161J-222 739 GRD161J-222 730 GRD161J-222 730 GRD161J-222 731 GRD161J-222 732 GRD161J-222 733 GRD161J-222 734 GRD161J-222 735 GRD161J-222 736 GRD161J-222 737 GRD161J-222 738 GRD161J-222 738 GRD161J-222 739 GRD161J-222 730 GRD161J-222 730 GRD161J-222 731 GRD161J-222 732 GRD161J-222 733 GRD161J-222 734 GRD161J-222 735 GRD161J-222 736 GRD161J-222 737 GRD161J-222 738 GRD161J-222 738 GRD161J-222 739 GRD161J-222 730 GRD161J-222 730 GRD161J-222 731 GRD161J-222 732 GRD161J-222 733 GRD161J-222 734 GRD161J-222 735 GRD161J-222 737 GRD161J-22	
CD Controller Board 0 3	3 4 5	G	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0
(s) V #TO	11287 A POS 1000 1000 1000 1000 1000 1000 1000 10	[570] \$ [570] \$ [570]		
S (S) VIII	P03 P03 P03 P03 P03 P1289 P103 P103 P103 P103 P103 P103 P103 P103	10701 F	TO SECULT OF STATE OF	

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8 Exploded View of Enclosure



■ Enclosure Parts List

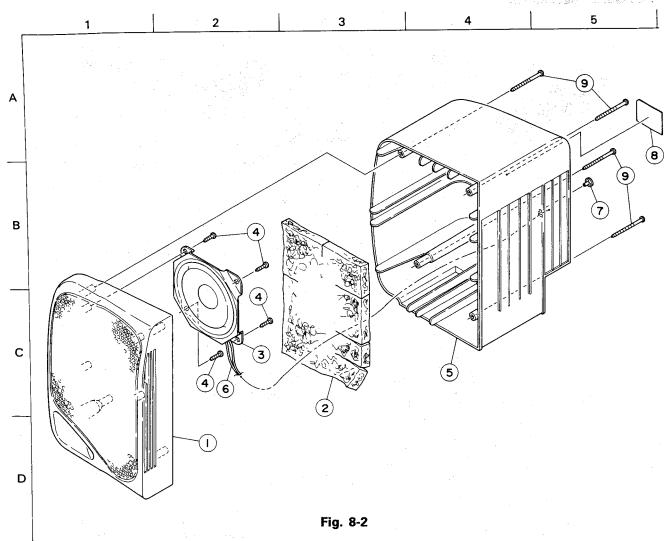
			BLOCK NO. M1MM	 		
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A		FRONT CABINET		1	GI	
	ZCPRX95EN-FB	FRONT CABINET		1	EN	
1	ZCPRX95G-FB	FRONT CABINET		1		
	ZCPRX95E-FB	FRONT CABINET	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	E	
	ZCPRX95B-FB	FRONT CABINET		1	В	
F	ZCPRX95K-CBA	CASSETTE CASE	DECK A	1		1
	ZCPRX95K-CBB	CASSETTE CASE	DECK B	1		
	ZCPRX95K-DCAB	DUST COVER		1		1
1	ZCRCX520K-CLAMP	CD CLAMPER ASSY		1		
	VJG1105-004	REAR CABINET		1 1	B,G,GI	
+	VJG1105-002	REAR CABINET		1	EZEN	
	VJA3006-00E	ROD ANTENA ASSY		1		i
-	VMZ0112-10SF	ANT.T.LUG ASS'Y		1		1
1	1	SCREW	ROD ANT+REAR	1	:	ŀ
	SDSP3012N VYH5657-001	BATTERY SPRING	1	1	, i	
		HANDOL ASS'Y		1	: : : : : : : : : : : : : : : : : : : :	
		BATTERY COVER		1		
	VJC2016-008	3		1		
	VYH3730-002	HEAT SINK	TR+HEAT SINK	2		
	DPSP3008Z	SCREW	IC+HEAT SINK	1		
	SBSF3008Z	SCREW	ICTHEN! SINK	1		+
	3 VKL7204-001	AC BRACKET	AC BRACKET			Ì
	4 SBSF3012Z	SCREW	AC BRACKET	2		
	5 SBST3006Z	SCREW	AC BRACKET	1		1
1	7 GBSF4020Z	SCREW	POWER TRANS	2		ļ
1	8 VKS3598-001	MECHA HOLDER		1		_
1	9 SBSF3012Z	SCREW	R.CABI+M.HOLDER	1		
2	0	MECHANISM ASS'Y	CASSETTE	1		
2	1 182131301ZT	BUTTON FRAME AS	4	1	1	
	2 182131307ZT	B. FRAME ASS'Y		1		1
	3 99991402T	MINI SCREW	B.F.ASS'Y + MEC	4		
	4 SSSF3012Z	SCREW	MECHA+REAR CABI	6		
	0 VJD1161-001	CD CASE		1		
3	1 VKS5416-001	LOCK ARM		1		
3	2 VYH4769-002	GEAR		1 1		
	3 EXL-M6A	CD MECHA		1		
	4 VJD5410-004	PICK COVER		1		
	5 VYH6596-001	CD CUSHION	FOR CD MECHA	1		
	6 VKW4693-101	CONICAL SPRING	FOR CD MECHA	2	<u>.</u>	
		CONICAL SPRING	Tak ob mad			1
	7 VKW4693-102	CD MECHA HOLDER				
	8 VKL7209-002	T.SCREW	OPEN , CLOSE SW			-
3	9 E65923-003		CD ASSY+CD CASE			
4	0 SBSF3012Z	SCREW	CD PROTECTOR			
4	1 VYH7741-001	SHIELD				1
4	2 SDSF2006M	SCREW	PICK COVER			
	3 VKS5417-001	LCD HOLDER	CD BOARD		L	
	4 SBSF3012Z	SCREW	CD BOARD		2	- 1
4	5 GBSF3012Z	SCREW	CD AMP BOARD			
	6 SBSF3012Z	SCREW	LCD BOARD		•	ļ
	9 VJT1045-003	CD DOOR				ŀ
	50 VJD5404-001	CD LENS	MECHA A		1	_
	52 VYH7313-001	MAGNET			1	
	53 VYH7314-001	YOKE			1	
	54 VYH7315-004	PAD		'	1	-
	55 VKW5021-003	CD DOOR SPRING			1	1
1 1	56 SBSF3014Z	SCREW	CD ASS'Y+REAR		2	

A Parts are safety assurance parts.

When replacing those parts, make sure to use the specified one.

			<u> </u>	BLOCK NO. MIMM			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
\Box	70	VYH1221-001	TUNER CHASSIS		1		
	71	VKS3592-001	DIAL DRUM	14.7	1		1
	72	LPSP2606Z	SCREW	DIAL DRAM	1		
		VJN41,42-001	NEEDLE		1		
Ш		SBSF3012Z	SCREW	T.CHASSIS + AMP	4		
	75	VJG1106-002	FRONT CABINET		1		
	76	VJD5411-001	LCD LENS		1		
	77	VJK3591-008	DIAL LENS		1	1	
		VJK3591-003	DIAL LENS		1	G	İ
		VJK3591-004	DIAL LENS		1	GI	
		VJD3940-001	CONTROL PLATE		1		1
		VJT2302-001	CASSETTE DOOR (A	MECHA. A	1		
11		VJT4198-001	CASSETTE LENS (A	MECHA. A	1		
		VKY4180-001	CASSETTE SPRING		2		
	82		GEAR		1		 -
	83	VKW5025-003	DOOR SPRING		1		1
		VJT2302-002	CASSETTE DOOR(B	MECHA. B	1		
li		VJT4198-002	CASSETTE LENS(B	MECHA. B	1		
11		VKY4180-001	CASSETTE SPRING		2		
\square		VYH5601-001	GEAR		1 1		
		VKW5025-003	DOOR SPRING	DECK A DEC	1		
		VXP3391-001	MECHA BUTTON	DECK A, REC	1 1		
		VXP3391-002	MECHA BUTTON	1	2	1.	
		VXP3391-003	MECHA BUTTON	REW	2		
		VXP3391-004	MECHA BUTTON	FF STOP	2		
		VXP3391-005	MECHA BUTTON MECHA BUTTON		1		
11		VXP3391-006		DECK A, PAUSE			İ
		VXL4407-001	TUNING KNOB	THER CHARGE	1		
		VXL4408-001	F TUNING KNOB	TUNER CHASSIS	1	1.	
-		VXL4421-001	VOLUME KNOB	DUDDING TABL	1 1		
		VXL4422-001	KNOB	DUBBING, TAPE	3		
		VXQ4115-001	LEVER KNOB	FUNC/MONO.STE/B			
11		VXP5162-001	POWER BUTTON		1		
		VXP5128-003	CD EJECT BUTTON		1		
		VXP3513-001	CD BUTTON(A)		1		
		VXP3514-001	CD BUTTON(B)	E CARTID CART	1 4	i	
		SBSF2608Z	SCREW	F.CABI+R.CABI	2		
1.		SSSF3010M	SCREW	F.CABI+R.CABI 3	1	1	
	107	VYN7061-M002T	NAME PLATE		1	1	
\square		VYN7061-005T	NAME PLATE		$\frac{1}{1}$		+
		VYN7061-M008T VYN7061-M108T	NAME PLATE	T in the second		GI	
	400		SCREW	SPEAKER TERMINA	6		
	108	SBSF3045Z VND4220-001	LASER CAUTION	FOR CD CASE ###	1	1	
		VYH5483-001	BATTERY SPRING	UM-1	1		
\vdash		VYSH107-011	FELT SPACER	FOR P.TRANS.	1		-
		VMA4555-001	SHIELD PLATE	FOR P.TRANS.	1		
	114	VND4221-001	CLASS 1 LABEL	TOR THRANGE	1	k .	
		E71541-001	E I LASER MARK		1	1	1
	71	VJH3066-002	H. HOLDER		2		.
\vdash		VJH4093-116	HANDLE PIPE		1		
	1	SHSF3012N	SCREW	HANDLE PIPE	2		1
	'-3	OTION DOTEIN	001124				
	1	The state of the s	1	E.		1	1

■ Speaker Box Section M2

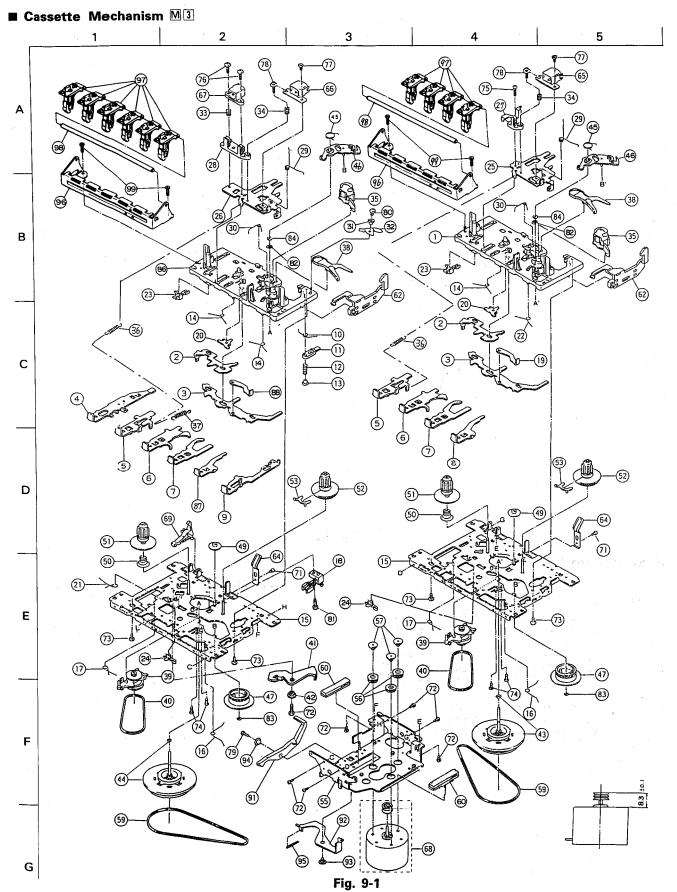


■ Speaker Box Parts List

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	2 3	VJC2473-00A VJC2474-00A VKZ4687-001 VGS1001-014 VJG1114-001	SP. PANEL ASS'Y SP. PANEL ASS'Y SOUND ABSOBER CONE SPEAKER REAR CABINET	LEFT SIDE RIGHT SIDE SP101 RIGHT SIDE	1 1 1 1		
	6 7	VJG1112-001 VMP0040-002T VJD5373-001SS VYN7061-001B	REAR CABINET SPEAKER CORD STOPPER ARM NAME PLATE	LEFT SIDE	1 1 1 1		

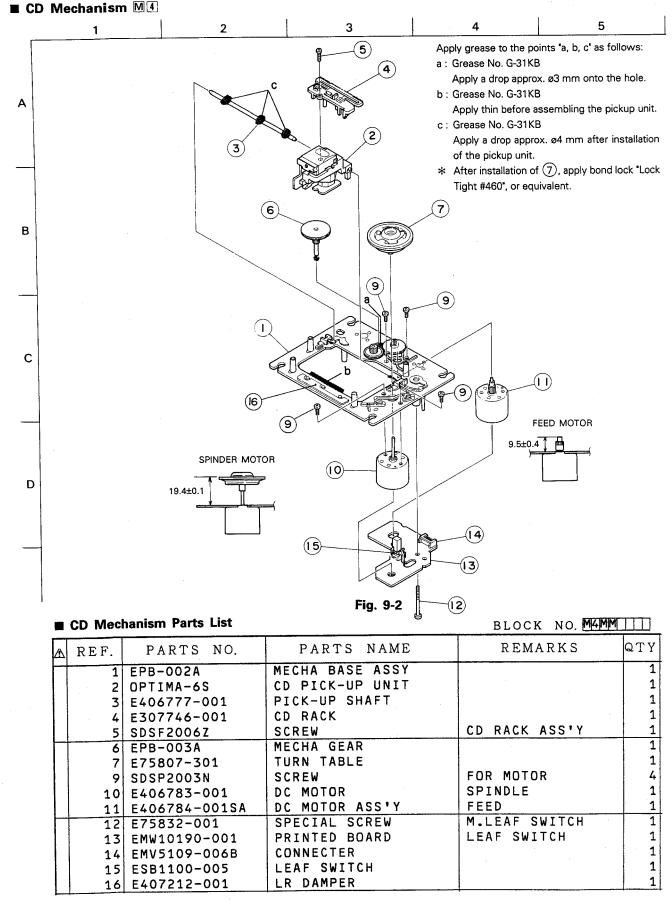
BLOCK NO. M2MM

9 Exploded View of Mechanism

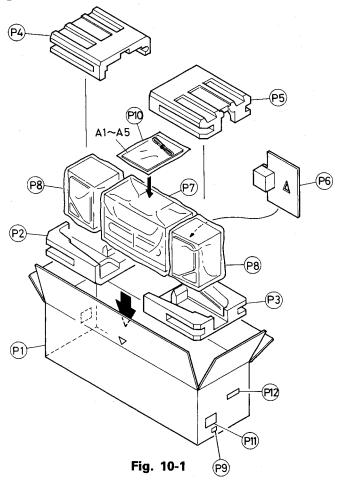


■ Casse	tte Mechanism Part	ts List				
			BLOCK NO. M3MM	<u> </u>		
A REF.	1	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1 192114301ZT	BASE ASS'Y		1		
	2 19211409T	SWITCH ACTUATOR	· ·	2		
	3 19211438T	PUSH B.ACTUATOR		2		ŀ
l l	4 19211422T	BUTTON LEVER	REC BUTTON	1		
	5 19211484T	BUTTON LEVER	PLAY BUTTON	2		
	6 19211424T	BUTTON LEVER	REW BUTTON	2	-	
	7 19211425T	BUTTON LEVER	FF BUTTON	2		
	8 19211426T	BUTTON LEVER	STOP BUTTON	1		
1 !	9 19211461T	BUTTON LEVER	PAUSE BUTTON	1		
	0 19211413T	P CONT. SPRING		1		
	1 19211455T	PAUSE LEVER (E)		1		
	2 19211412T	SPRING	PAUSE LEVER	1		
	3 19211411T	PAUSE STOPPER		1		
	4 19211414T	TORSION SPRING	BUTTON LEVER	3		
	5 192101501ZT	CHASSIS ASS'Y		2		
	6 19211416T	TORSION SPRING	E.ACTUATER	2		
1 1	7 19211417T	TORSION SPRING	P.S.LEVER	2		
	8 64010138T	LEAF SWITCH	MSW-1275	1		
	9 182101159T	E.KICK LEVER		1		
	0 19211420T	STOPPER		2		
	1 19211449T	LEVER SPRING	REC BUTTON	1		
	2 19211433T	TORSION SPRING	BUTTON LEVER(C)	1		
	3 MSW-1541T	LEAF SWITCH	MSW-1541T	2		
1 1	4 640101161T	LEAF SWITCH	MSW-17820MVD0	2		
	5 19210311T	HEAD PANEL		1		
	6 19210314T	HEAD PANEL		1		
1 1	7 19210304AT	HEAD BASE		1		ļ
1	8 19210306T	HEAD BASE		1		
	9 19210309T	PANEL P SPRING		2		
1 1	30 19211418AT	SPRING	M CONTROL	2		
	31 19211437T	P ARM COLLAR		1		
	32 19211434T	P.ROLLER ARM		1		
	33 18210308T	SPRING		1		
	34 18210307T	AZIMUTH SPRING	*	2		
	35 192104306T	P.ROLL.ARM ASSY		2		
	36 18210150T	SPRING	PLAY BUTTON LEV	2	· · · · · · · · · · · · · · · · · · ·	
	37 18211311T	TENSION SPRING	E.SLIDE LEVER	1		
	38 19212604TT	SENSING LEVER		2		
	39 192107302ZT	RF CLUTCH ASS'Y	1	2		
	40 18210711T	RF.BELT		2		
	41 19210201T	REC ARM		1		
	42 19211437T	P ARM COLLAR		1		
	43 192109318T	FLYWHEEL ASS'Y	PB MECHA.(B)	1		
	44 192109317T	FLYWHEEL ASS'Y	REC/PB MECHA.(A	1		
	45 19212605T	TORSION SPRING	GEAR PLATE	2		
	46 192126502ZT	GEAR PLATE ASSY		2		
	47 19212602T	CAM GEAR	1	2		
	49 18211070T	F.FORWARD GEAR		2		
	50 18291010T	BACK T. SPRING		2		
	51 192105304T	S. REEL ASS'Y	SUPPLY	2		
	52 192105303T	T. REEL ASS'Y	TAKE-UP	2		
	53 19210506T	SENSOR		2		
	55 19211211T	MOTOR BRACKET		1		
	56 18211266T	MOTOR RUBBER		3		-
	-					

			BLOCK NO. M3M	MITT		
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	18511418T	COLLAR SCREW				
57		MAIN BELT		3		l
59	1717	ANTI V.FELT MAT		2		
60			F 1 F C T	2		1
1	19211302T	EJ. SLIDE LEVER	EJECT	2		
64		PACK SPRING		2		
	VGH0421-021	PB HEAD	DECK B	2		
	VGH0421-021	PB HEAD	DECK A	2		
	LE15A-C1	E HEAD	DECK A	1		.
	1921123182T	MOTOR ASS'Y		1		
	18211069T	REC.SAF.LEVER		1		
71	91790000T	TAPPING SCREW	M2 X 3	2		
72	91800000T	SCREW	M2 X 4	7		
73	96790000T	TAPPING SCREW	M2 X 5	4		
74	99991809T	SPECIAL SCREW	M2 X 4.5	6		
75	90040000T	SCREW(M2 X 6)	M2 X 6	1		
76	9223C000T	CAP SCREW	M2 X 7.5	2		
77	91150000T	SCREW(M2 X 3)	M2 X 3	2		
78	99220000T	SCREW(M2 X 7)	M2 X 7	2		1
	91820000T	SCREW	M2 X 6	1		
1 ·	99992041T	SPECIAL SCREW	M2 X 3	1		
81		SCREW	M2 X 5	1		
	99990003T	POLYSLIDER WAS.	2.1X4X 0.13	2		
		POLY.CUT WASHER	1.2X3.8X0.3	2		
83	99990313T	POLY.CUT WASHER	1.45X3.8X0.5	2		
I .		BASE ASS'Y	1.43,43.8,0.3			1
86			CTOD	1		_
87		BUTTON LEVER	STOP	1		
i	3 19211464T	E KICK LEVER		1		İ
	19211209T	P.KICK LEVER(B)		1		
97		P.KICK LEVER		1		
93		COLLAR SCREW		1		
94		COLLAR (B)		1		
	5 18211312T	SPRING	E. SLIDE LEVER	1		1
	5 18213106T	FRAME		2		
	7 18213107T	SELECT LEVER		10		
91	3 18293103T	SHAFT	BUTTON LEVER	2		
99	99991402T	SCREW	BUTTON FRAME	4		
				·		



10 Packing



■ Packing Parts List

	P	ack	ing Parts List		BLOCK NO. M5M			
A	RE	EF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	1	VNN7061-251M	INSTRUCTIONS		1	B,GI	
			VNN7061-261	INSTRUCTIONS		1	E,G,EN	
			VNN7061-271M	INSTRUCTIONS	į	1	EN	
	A	2	PU36158	FTZ INFOMATION		1	G	
Α.	A	3	QMP5510-183BS	POWER CORD	1	1	В	
<u> </u>			QMP39F0-183	POWER CORD		1	E/G/GI/EN	
	А	4	E43486-340B	SAFETY INST.SHE	1	1	В	
- 1	Α	5	BT20060	WARRANTY CARD		1	В	
ı			BT-20066A	WARRANTY CARD		1	B,G	
	ļ		BT-20114	WARRANTY CARD		1	G .	! !
Г	P	1	VPC7061-001	CARTON		1		
1	Р	2	VPH1593-001	CUSHION (BOTT,L)		1		
- 1	Р	3	VPH1593-002	CUSHION (BOTT,R)		1		
- (P	4	VPH1594-001	CUSHION(UP,L)		1		1
ı	Р	5	VPH1594-002	CUSHION(UP,R)		1		
Г	P	6	VPK4276-00A	PAD ASS'Y		1		
- 1	P	7	E300196-031B	ENVELOPE	FOE SET	1		
- 1	P	8	VPE3020-018	POLY BAG	SPEAKER	2		1
- 1	Р	9		APPROVAL MARK		1	G	1
- 1	P	10	VPE3005-007	POLY BAG	FOR INSTRUCTION	1		
	P	11	VND3044-004	SIRIAL TICKET		1	В	
1	1	i	VND3044-005	SERIAL TICKET		1.	G	
-			VND3044-003	SERIAL TICKET	l	1	E,GI,EN	1 1
- 1	P	12	VND3025-167	EAN CODE LABEL		1		



VICTOR COMPANY OF JAPAN, LIMITED. PERSONAL AUDIO PRODUCTS DIVISON

10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan